Docket:	:	A.21-01-003
Exhibit Number	:	Cal Adv - ____
Commissioner	:	Martha Guzman Aceves
Administrative Law Judge	:	Daphne Lee
Public Advocates Office		
Witness	:	Niamh Murphy

REPORT AND RECOMMENDATIONS ON GENERATORS AND EMERGENCY PREPAREDNESS

Application 21-01-003

San Francisco, California
May 25, 2021

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MEMORANDUM

The Public Advocates Office at the California Public Utilities Commission (Cal Advocates) examined requests and data presented by San Jose Water Company (SJWC) in Application (A.) 21-01-003 (Application) to provide the California Public Utilities Commission (Commission) with recommendations that represent the interests of SJWC's customers for safe and reliable service at the lowest cost. This Report is prepared by Niamh Murphy. Ting-Pong Yuen is Cal Advocates' project lead for this proceeding. Mukunda Dawadi is the oversight Program and Project Supervisor, and Angela Wuerth is the legal counsel.

Although every effort was made to comprehensively review, analyze, and provide the Commission with recommendations on each ratemaking and policy aspect of the requests presented in the Application, the absence from Cal Advocates' testimony of any particular issue does not constitute its endorsement or acceptance of the underlying request, or the methodology or policy position supporting the request.

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B. Chapter 2: Emergency Preparedness

SJWC has followed the Commission authorized Disaster Relief Plan in its response to the COVID-19 Pandemic. The current General Rate Case (GRC) application does not request to recover the expenses recorded in SJWC's COVID-19 Catastrophic Event Memorandum Account (CEMA). If SJWC requests to recover COVID-19 related expenses, the Commission should ensure that the costs are appropriate and authorized in accordance with Commission Decision (D.)19-07-015.

To comply with the recent Commission Decision (D.)21-05-019 on Phase II Issues Relating to Emergency and Disaster Preparedness Plans,[1] SJWC should develop and codify in the Emergency Response Plan the assistance SJWC will provide to customers with accessibility needs.

[1] Part of R.15-06-009

CHAPTER 1: GENERATORS

I. Introduction

In the event of a power outage, SJWC relies on its fleet of portable and permanent generators to power critical facilities. During a power outage, there are several methods that utilities can use to provide power. One of the most common methods is to use diesel or natural gas generators. Out of its fleet of 55 generators, SJWC has 2 that use natural gas and 53 that use diesel. In 2019, SJWC switched from using fossil fuel diesel to Neste biofuels, which is renewable, but still releases carbon dioxide when burned.[2] However, there are emerging emission-free power technologies in which SJWC has not invested that would benefit SJWC customers and the environment. An example is the East Valley Water District's planned installation of a large-scale battery pack at a water purification station, funded by the Commission's own Self Generation Incentive Program.[3]

SJWC requests $3,608,500 for Test Year (TY) 2022 and $4,181,034 for TY 2023 for new generators and generator receptacles. Some requests are part of larger capital investment projects. Generator receptacles are also referred to as switches and are essentially the electrical connection that portable generators are plugged into to allow the generator to power a station or site. There are two kinds of connections between a generator and a site that needs power: manual and automatic. As the names suggest, a manual switch requires personnel to connect the power, and an automatic switch turns on automatically in the case of a power outage and starts providing power without personnel intervention. Standby (or permanent) generators usually use automatic switches.

[2] Exhibit G – Appendix 2 – Enterprise Asset Management Plan, p. 136 (p. 5 of Generator Tactical Asset Management Plan).
[3] "Water treatment plant to get battery back up power" by Hector Hernandez Jr., Highland Community News. Accessible at: https://www.highlandnews.net/news/water-treatment-plant-to-get-battery-back-up-power/article_1701fc60-5b7e-11eb-803b-e7d19c15b77f.html.

II. Summary of Recommendations

The Commission should authorize $1,018,500 in Test Year (TY) 2022 and $1,094,536 in TY 2023 for generator-related capital improvements. This recommendation is lower than SJWC's budget request of $3,608,500 for TY 2022 and $4,181,034 for TY 2023 for generator-related capital improvements. Table 1-1 below summarizes the recommendations concerning SJWC's generator related requests and Cal Advocates' recommendations. Highlighted cells indicate amounts that are tabulated as part of a larger budget and must be removed from those individual project budgets if the Commission approves the larger projects but not the generator portions of them. The total budget for the Idylwild/Oakmont project should be lowered to $6,342,738 from $6,641,000. The Three Mile portable generator replacement budget of $235,000 should be removed from the 2022 beginning plant balance, as it is part of the 2021 plant budget used to estimate TY 2022 total plant balance.

Table 1-1: All Generator-related Recommendations

Site	Test Year	Index ID	Permanent, Portable, or Receptacle?	SJWC Request	Cal Advocates Recommendation	Cal Advocates Recommendation as % of SJWC request
Canyon Creek Station	2023	5222	New Receptacle	$72,236	$72,236	100%
Belgatos Station	2023	5312	New Receptacle	$8,000	$8,000	100%
Guadalupe Mines	2022	5313	New Receptacle	$8,000	$8,000	100%
Lower Northwood	2023	5309	New Receptacle	$72,236	$0	0%
Mabury Groundwater	2023	5211	New Permanent	$858,000	$0	0%
Perie Lane	2022	5252	New Permanent	$150,000	$150,000	100%
Idylwild/Oakmont	2023	5281	New Permanent	$298,262	$0	0%
Three Mile	2022[4]	5751	Replacement Portable	$235,000	$0	0%
Vickery	2022	5545	Replacement Permanent	$860,500	$860,500	100%
Will Wool #11	2022	5754	Replacement Portable	$235,500	$0	0%
Buena Vista	2023	5753	Replacement Permanent	$929,000	$0	0%
12th St	2023	5985	Replacement Permanent	$929,000	$0	0%
Cox	2023	5758	Replacement Permanent	$842,700	$842,700	100%
Locust #42	2023	5878	Replacement Portable	$171,600	$171,600	100%
TOTAL	**-**	**-**	**-**	**$7,789,534**	**$2,113,036**	**27.1%**

[4] The Three Mile Generator Replacement is part of the 2021 plant budget, which is used to estimate the 2022 plant balance.

III. Discussion

A. Generator Receptacle Requests

SJWC requests new portable generator receptacles within larger capital budgets, summarized in the following table:

Table 1-2: Generator Receptacle Requests (within larger projects)

Site	Cost
Canyon Creek Station	$72,236
Guadalupe Mines Station	$8,000
Lower Northwood Station	$72,236
Belgatos Pump Station	$8,000

Most sites already have generator receptacles, but SJWC states that the following do not: Almondwood Station, Canyon View Station, Lower Northwood Station, Meadow Lane Station, Pelleas Station, Perie Lane Station, Regnart Canyon Station, Regnart Road Station, and Snell Station.[5] The Guadalupe Mines Station already has a generator receptacle, but SJWC states it must be replaced if the motor control center (MCC) is replaced.[6] SJWC currently has several generator receptacles that are not compatible with some of the current portable generator inventory.[7] In its Generator Tactical Asset Management Plan, SJWC lists Regnart Canyon as a site that requires a generator receptacle to provide critical pressure system services.[8] The Canyon Creek and Lower Northwood stations are more expensive because SJWC bundled the generator receptacle

[5] Attachment 1-2 SJWC Response to DR NM-003, Q. 7.b.
[6] Attachment 1-2 SJWC Response to DR NM-003, Q. 7.a.
[7] SJWC Response to DR NM-03 Attachment 3, tab "REFERENCE – Gen. Receptacles"
[8] Exhibit G – Appendix 2 – Enterprise Asset Management Plan, p. 150 (p. 19 of Generator Tactical Asset Management Plan).

estimate in with the installation of some electrical conduits and automatic transfer switches.[9]

During a Public Safety Power Shutoff (PSPS) event or other emergency, generator receptacles allow the utility to connect portable generators to a site that needs power. Installing receptables is also more cost effective than installing a standby generator, and it allows flexibility during unpredictable outages, as utilities can transport portable generators where they are needed. During the PSPS events in October 2019, SJWC was able to successfully move portable generators between affected sites, and even was able to pre-emptively set up portable generators at certain sites in case they were turned off later.[10] Additionally, the PSPS events did not affect the same sites each time. Using portable generators and generator receptacles, SJWC was able to mitigate the impact from these PSPS events in a cost-effective manner.

Despite SJWC's success during the PSPS events, there is room for improvement with its generator management. SJWC appears to not follow its own planning and strategy documents. Regnart Canyon is the sole pump station for a single pressure zone, which was affected by the October 2019 PSPS events, and currently has no receptacle to access generated power.[11] In its application, SJWC made no mention of installing a generator receptacle at this critical site, even though this site is prioritized in its generator asset management plan. SJWC is also prioritizing replacing generator receptacles in new capital projects, rather than installing them for the first time at critical sites.

Guadalupe Mines station already has a generator receptacle, which SJWC is proposing to replace along with a new motor control center (MCC).[12] It is important for SJWC to retain flexibility to use portable generated power. It is reasonable to install a generator receptacle at the Canyon Creek and Belgatos stations because each of these

[9] Exhibit G – Appendix 1 – Capital Improvement Project and Program Justification Appendices, p. 34 and p. 138.
[10] Attachment 1-2 SJWC Response to DR NM-03 Attachment 2.
[11] Attachment 1-7 SJWC Response to DR NM-03 Attachment 2, tab "PSPS on 10.29.19" and Attachment 1-2 SJWC Response to DR NM-03 Q 7.b.
[12] Attachment 1-2 SJWC Response to DR NM-03 Q 7.a.

stations currently lack one and a receptacle would allow SJWC to power the stations should the need arise.[13] It is a matter of public health and safety of SJWC customers to have facilities that can utilize SJWC's supply of portable generators during a power outage. The Commission should authorize SJWC's requested budget for generator receptacles at the Guadalupe Mines, Canyon Creek and Belgatos stations as part of the requested budget within each site's respective larger capital improvement project.

The Lower Northwood station generator receptacle request is part of a larger capital project budget that is fully addressed by Cal Advocate witness Mrs. Daphne Goldberg. See direct testimony of Mrs. Daphne Goldberg for explanation of Cal Advocate's recommendation to deny this project.

For the recommended generator receptacles, SJWC should install generator receptacles that are compatible with as many of SJWC's portable generators already in stock as possible. SJWC should follow its Generator Tactical Asset Management Plan to prioritize generator receptacles at critical stations before other stations.

Table 1-3 below summarizes Cal Advocate's recommendations regarding SJWC's generator receptacle requests that are within larger capital improvement projects.

Table 1-3: Generator Receptacle Requests (within larger projects)

Site	Index #	SJWC Request	Cal Advocates Recommendation	Cal Advocates Recommendation as % of SJWC request
Canyon Creek Station	5222	$72,236	$72,236	100%
Guadalupe Mines Station	5313	$8,000	$8,000	100%
Lower Northwood Station	5309	$72,236	$0	0%
Belgatos Pump Station	5312	$8,000	$8,000	100%

[13] Attachment 1-2 SJWC Response to DR NM-03 Q 7.a.

B. New generator requests as part of larger capital projects

SJWC requests the following permanent generators as part of larger capital projects:

Table 1-4: Permanent Generator Requests (within larger projects)

Site	Cost
Mabury Groundwater	$858,000
Perie Lane	$150,000
Idylwild Station – to replace Oakmont Station	$298,262

The Mabury groundwater station generator is part of a larger project to install new ground water wells. See direct testimony of Mrs. Daphne Goldberg for further discussion about the Mabury Groundwater project.

Perie Lane has been identified by SJWC as a critical pressure site and was effected by the PSPS events in October 2019.[14] SJWC emphasizes the importance of emergency backup power, especially at the Perie Lane pressure station, where water pressure dropped below satisfactory levels and residents were given boil water notices.[15] SJWC was able to successfully deploy a portable generator to the site.[16] SJWC identifies the need for a relatively small and cost-effective 30 kW generator to power Perie Lane.[17] It is a matter of public health and safety of SJWC's customers to have safe, drinkable water, and it is very important to keep the Perie Lane station powered during an emergency. The Commission should authorize SJWC's budget request to install a 30kW permanent generator at Perie Lane.

[14] Exhibit G – Appendix 2 – Enterprise Asset Management Plan, p. 150 (p. 19 of Generator Tactical Asset Management Plan) and Attachment 1-7 SJWC Response to DR NM-03 Attachment 2.
[15] Exhibit G – Capital Improvement Project and Program Justifications, p. 284.
[16] Attachment 1-7 SJWC Response to DR NM-03 Attachment 2.
[17] Exhibit G – Capital Improvement Project and Program Justifications, p. 284.

Oakmont was similarly affected by the October 19 PSPS events. SJWC successfully deployed a 115kW portable generator to power the site.[18] Due to Oakmont's proximity to Idylwild's proposed location,[19] the amount of effort to suitably outfit the site with a portable generator when needed is about the same. SJWC does not identify Oakmont/Idylwild as a critical site in its tactical asset management plan. SJWC's justification for requesting a permanent generator is that "[f]ollowing a major earthquake, access to Idylwild Station may be restricted such that a portable generator cannot be deployed. … After the Loma Prieta earthquake in 1989, substantial damage occurred to the roads near Idylwild station and portions of Highway 17 were shut down for 32 days."[20] If all access to the site were cut off, SJWC's proposed 200kW permanent generator would have enough fuel to run continuously for 24 hours, or intermittently run for 4 days.[21] This proposed permanent generator is not adequate to provide power for an extended period of time, assuming all access to the site is cut off.

Given the site's remote location, it appears that accessibility is a major concern for the site's operations. As such, SJWC can adequately cover this site's power requirements by housing one of its portable generators at this site and installing an automatic switch at the new Idylwild location. Installing a permanent generator at Oakmont/Idylwild means that SJWC is investing money into an emergency solution that can only be used at the installation site. A portable generator housed at a remote site can be moved to other remote sites in the region to provide power in the case of an emergency. A portable generator is a cost-effective and flexible solution to address the unpredictable nature of emergency power outages. The Commission should deny SJWC's budget request for the Oakmont/Idylwild permanent generator request, because SJWC is currently able to adequately cover the station's emergency power needs with portable generators. If accessibility is the concern, SJWC can house one of the portable generators at the

[18] SJWC Response to DR NM-03 Attachment 2, DR NM-03 Attachment 3, tab "Portable Generators"
[19] Exhibit G- Capital Improvement Project and Program Justifications Figure 7, p. 205 and 289.
[20] Attachment 1-2 SJWC Response to DR NM-03, Q6.
[21] Exhibit G- Capital Improvement Project and Program Justifications, p. 301.

Oakmont/Idylwild site, which would switch on automatically with the installation of an automatic switch. Therefore, the total authorized budget for the Idylwild/Oakmont project should be $6,342,738, not the $6,641,000 amount the utility requests. Table 1-5 below summarizes Cal Advocate's recommendations for SJWC's generator requests that are part of larger projects.

Table 1-5: Generator Requests (within larger projects)

Site	Index #	SJWC Request	Cal Advocates Recommendation	Cal Advocates Recommendation as % of SJWC request
Mabury Groundwater	5211	$858,000	$0	0%
Perie Lane	5252	$150,000	$150,000	100%
Idylwild Station – to replace Oakmont Station	5281	$298,262	$0	0%

C. Individual generator replacements

SJWC requests or has requested in the past, the following new generators to replace existing generators:

Table 1-6: Generator Replacement Requests

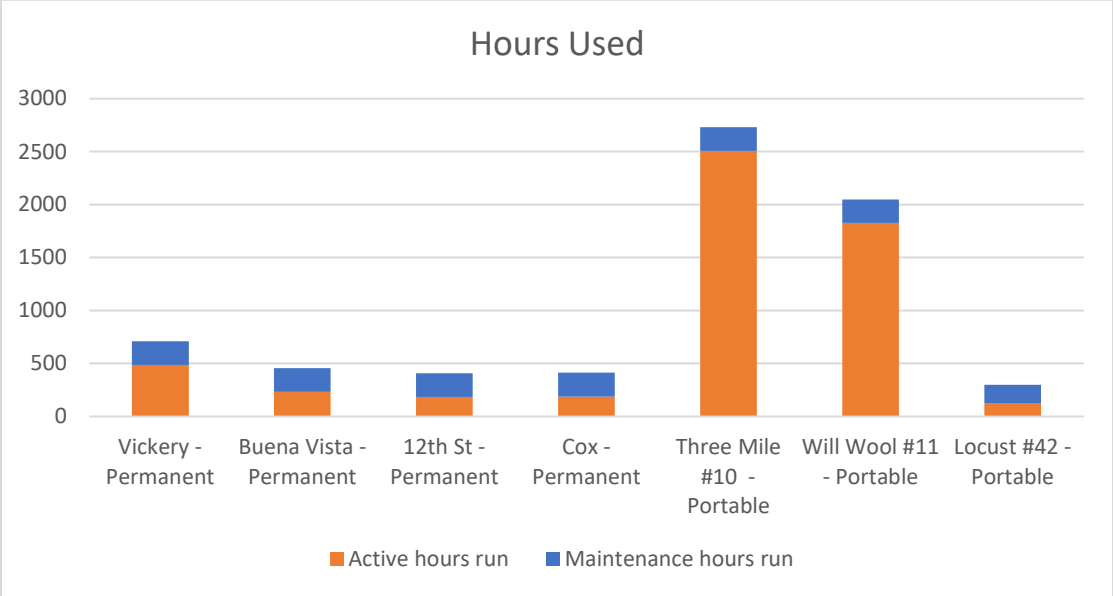
Site	Permanent or Portable?	Cost
Three Mile	Portable	$235,000
Vickery	Permanent	$860,500
Will Wool	Portable	$235,5000
Buena Vista	Permanent	$929,000
12th St	Permanent	$929,000
Cox	Permanent	$842,700
Locust	Portable	$171,600

SJWC replaces generators reactively as they fail rather than preemptively.[22] SJWC states that the requested replacement generators are nearing the end of their estimated lifespans and ranked high in risk of failure in SJWC's risk management plan.[23] SJWC's risk estimation rating system uses equipment age as the major scoring criteria and includes factors like "social media buzz" to prioritize Operations and Maintenance (O&M) actions.[24] SJWC's risk rating system is not solely calculated on risk of failure from recorded data of failure events or equipment health. In the past 15 years, SJWC has replaced 7 permanent generators and 1 portable generator.[25] This is a replacement rate of about 1 permanent generator every 2 years. SJWC's Tactical Asset Management Plan Summary Technical Memorandum states that 1-2 permanent generator replacements per year and 1 portable generator every 1-2 years are sustainable generator replacement rates.[26] The most recent condition reports for the 7 generators requested for replacement all show that the generators are in good working order. The 7 generators can keep a constant voltage throughout their load tests and do not have any recorded major problems.[27] Given SJWC's replacement record, the condition of the generators, and the Tactical Management Plan, it is unlikely that all 7 of the generators requested will fail within the next three years.

Additionally, some of these generators, while indeed nearing the end of their estimated lifespan in years, have not been used that much and are in good condition.

[22] Exhibit G – Appendix 2 – Enterprise Asset Management Plan, p. 142 (pg 11 of Generator Tactical Asset Management Plan).
[23] Exhibit G – Appendix 2 – Enterprise Asset Management Plan, p. 157 (Table A-1 of Generator Tactical Asset Management Plan).
[24] Exhibit G – Appendix 2 – Enterprise Asset Management Plan, pp. 141, 145 (pp. 11, 14 of Generator Tactical Asset Management Plan).
[25] Attachment 1-3 SJWC Response to DR NM-007, Q4.
[26] Exhibit G – Appendix 2 – Enterprise Asset Management Plan, p. 992 (p. 4 of Tactical Asset Management Plan Summary Technical Memorandum).
[27] Attachment 1-3 SJWC Response to DR NM-007 Attachment 2.

Figure 1-1: Hours run per generator



[28]

For reference, diesel generators (of which, all these generators are), can have a nominal lifetime of about 20,000 hours use.[29] These generators fall well below that. As Figure 1-1 shows, the permanent generators are also used less than their portable counterparts, probably because they can only service one fixed location, whereas a portable generator can be moved where it is needed. While emergency generators are a critical component of a utility's operations, permanent generators are less used and useful than a portable generator, even though they are both capable of powering stations. Commission D.84-09-089 states that:

> Over the years, this Commission has closely adhered to the "used and useful" principle, which requires that utility property be actually in use and providing service in order to be included in the utility's ratebase. We have regularly applied this principle to exclude from ratebase any construction work in progress, and have removed from ratebase plant which has ceased to be used and useful.

Generators provide critical services to SJWC's operations, but portable generators appear to be more flexible, useful, and cost-effective than permanent generators.

[28] Attachment 1-3 SJWC Response to DR NM-007 Attachment 1.
[29] "Sizing of Energy Storage and Diesel Generators in an Isolated Microgrid Using Discrete Fourier Transform (DFT)" by Jun Xiao et. al., IEEE Transactions on Sustainable Energy, Vol. 5, No. 3, July 2014.

For the generators that fail, maintenance and generator load size can influence their longevity.[30] One maintenance concern is wetstacking. Wetstacking occurs when not all the diesel in the engine is burned, leaving carbon deposits and unburned fuel in the exhaust system and fuel injectors, reducing the efficiency of the generator.[31] SJWC mentions in its Generator Tactical Plan that wetstacking can occur if the temperature of a generator is below optimal operating temperature. However, wetstacking can also occur when the load being placed upon the generator is less than what it was designed to provide.[32] For example, a 400kW permanent generator powering a 100kW pump would be more at risk of wetstacking than a 150kW portable generator under the same load. SJWC chooses the rating of its generators to meet the critical load needed to ensure that minimum water pressure standards can be met.[33] SJWC also acknowledges that it is "common for SJW to only power a few pieces of equipment at a given time at a facility, depending on the system demands."[34] Because of this, it is possible that when using permanent generators, they are chronically under-loaded. This can reduce the longevity of these larger generators over time.

One solution to the problem of both having a large enough power source to meet 100% of the station's critical power demands and not running generators below their design load is to run multiple smaller generators in parallel. Using two smaller, portable generators allows the utility to power just what is needed. As a simplified example, a station with a maximum 400kW demand can be equipped with two 200kW portable generators instead of one 400kW permanent generator. If the load from the station is below 200kW, only one of the portable generators needs to run. The relatively larger load on the smaller generator can reduce maintenance costs and increase efficiency by running

[30] "How long to diesel generators last?" accessible at https://www.wpowerproducts.com/news/diesel-engine-life-expectancy/.
[31] "What is Wet Stacking?" accessible at https://www.wpowerproducts.com/news/diesel-engine-generator-wet-stacking/.
[32] "What is Wet Stacking?" accessible at https://www.wpowerproducts.com/news/diesel-engine-generator-wet-stacking/.
[33] Attachment 1-4 SJWC Response to DR NM-008, Q.4.
[34] Attachment 1-4 SJWC Response to DR NM-008, Q.5.

at the design load, rather than under it.[35] If the load from the station increases, both portable generators can be run at the same time to meet the demand. It also increases reliability through redundancy, because one smaller generator can fail and not affect the performance of the other generator.[36] Using multiple portable generators on an automatic switch that reside at their "home" base are more used and useful than a permanent one at the same location, as they can also be moved to another affected station. As shown in Figure 1-1, the portable generators are used much more frequently. SJWC has the capacity to run multiple generators in parallel at the following stations: Breeding, Cambrian, Will Wool, Gish, and Needles Station.[37]

The Locust Portable #42 generator should be replaced, as it actively failed during a PSPS event and a second generator had to be brought in to power the station.[38] The other two portable generators have no major recorded maintenance or operation issues and while used more than SJWC's permanent generators, are still well under their nominal use lifespans. SJWC currently has a large fleet of portable generators that can successfully meet a widespread emergency demand. During the PSPS events, SJWC used 17 out of its 21 portable generators, and 16 out of its 34 permanent generators. Despite the severe outages, SJWC was able to power critical sites with generators to spare. Some critical sites that did not receive power, such as Regnart Canyon, were not prevented from using generators because of a lack of generators, but possibly because they lacked generator receptacles.[39]

The Three-Mile portable generator replacement is part of the 2021 plant budget that is used to estimate total plant balance for TY 2022. However, given the good condition that the generator was in as of November 2020[40] and the relatively low usage

[35] "Four Advantages of Paralleling Generators" available at https://www.globalpwr.com/advantages-paralleling-generators/
[36] "Four Advantages of Paralleling Generators" available at https://www.globalpwr.com/advantages-paralleling-generators/
[37] Attachment 1-4 SJWC Response to DR NM-008, Q.8.
[38] Attachment 1-7 SJWC Response to DR NM-003 Attachment 2, Tab "PSPS on 10.29.19."
[39] Attachment 1-2 SJWC Response to DR NM-003 Q8.
[40] Attachment 1-3: SJWC Response to DR NM-007 Q2.

hours, it is unlikely that this generator will need replacing in 2021. As such, the 2022 beginning plant budget should be $235,000 lower.

The Commission should authorize the budget for the replacement of 1 portable and 2 permanent generators. The Vickery station and Cox station permanent generators should be replaced over the next three years, as that rate is in line with SJWC's historical replacement rate and its own sustainable replacement rate. However, because SJWC replaces generators on a reactive basis, it should be allowed to use the allotted budget for whichever permanent generators fail in the next three years. If the replaced generator is at Breeding, Cambrian, Will Wool, Gish, or Needles Station, SJWC should consider installing two appropriately sized portable generators instead of one large permanent one, as these sites allow for parallel generator usage. SJWC should prioritize the use of portable generators over permanent, as they provide greater flexibility during an emergency and are historically more used and useful than SJWC's permanent generators. Table 1-7 below provides the recommended generator replacements:

Table 1-7: Generator Replacement Requests

Site	Index #	Permanent or Portable?	SJWC Request	Cal Advocates Recommendation	Cal Advocates Recommendation as % of SJWC request
Three Mile	5751	Portable	$235,000	$0	0%
Vickery	5545	Permanent	$860,500	$860,500	100%
Will Wool	5754	Portable	$235,500	$0	0%
Buena Vista	5753	Permanent	$929,000	$0	0%
12th St	5985	Permanent	$929,000	$0	0%
Cox	5758	Permanent	$842,700	$842,700	100%
Locust	5878	Portable	$171,600	$171,600	100%
TOTAL	**-**	**-**	**$6,322,800**	**$1,874,800**	**29.7%**

IV. Conclusion

The Commission should authorize $1,018,500 in Test Year (TY) 2022 and $1,094,536 in TY 2023 for generator-related capital improvements. This recommendation is lower than SJWC's budget request of $3,608,500 for TY 2022 and $4,181,034 for TY 2023 for generator-related capital improvements. The Commission should authorize the budget for the installation of generator receptacles at Canyon Creek Station, Guadalupe Mines and Belgatos Stations. SJWC should consider following its tactical asset management plan and prioritize generator receptacles at critical stations before others. The Commission should deny SJWC's requested budget for generator receptacles at Lower Northwood, as it is part of a larger capital project that is fully addressed in Mrs. Daphne Goldberg's direct testimony.

The Commission should deny SJWC's requested budget for the installation of a new permanent generator at the Mabury Groundwater Station because it is part of a larger capital project that that is fully addressed in Mrs. Daphne Goldberg's direct testimony. The Commission should deny SJWC's budget request for the Idylwild/Oakmont permanent generator because SJWC is able to meet the station's current emergency power needs with its portable generator fleet. This lowers the total authorized budget for the Idylwild/Oakmont project to $6,342,738 from the $6,641,000 amount SJWC requested. The Commission should authorize SJWC's budget request for the Perie Lane generator because it is a critical site, and water quality falls quickly at this site during sudden power losses.

The Commission should deny SJWC's budget request for the replacement of the Will Wool #11 portable, Buena Vista permanent, and 12th St permanent generators, because SJWC is overestimating how many generators are likely to fail, and the generators are in good working order. The Commission should lower the beginning 2022 plant budget balance by $235,000, as it is unlikely that the Three Mile portable generator will need to be replaced in 2021. The Commission should authorize SJWC's request for the Vickery and Cox Station generator replacements because two permanent generator

failures over the next 3 years is in line with SJWC's historical generator replacement rate. SJWC should be able to use the budget for two permanent generator replacements for any generator replacement. The Commission should authorize SJWC's budget request for the replacement of Locust #42 portable because it actively failed during a PSPS event and had to be replaced with another portable generator.

The Commission should encourage SJWC to use multiple portable generators instead of permanent generators where possible, as portable generators are more used and useful, and allow emergency flexibility when powering multiple stations within an area.

Table 1-8 below summarizes the above recommendations. Highlighted cells indicate amounts that are tabulated as part of a larger budget and must be removed from those individual project budgets if the Commission approves the individual projects but not the generator portions of them. The Commission should authorize a budget of $6,342,738 for the Idylwild/Oakmont project, not the $6,641,000 amount SJWC requested.

Table 1-8: All Generator-related Recommendations

Site	Test Year	Index ID	Permanent, Portable, or Receptacle?	SJWC Request	Cal Advocates Recommendation	Cal Advocates Recommendation as % of SJWC request
Canyon Creek Station	2023	5222	New Receptacle	$72,236	$72,236	100%
Belgatos Station	2023	5312	New Receptacle	$8,000	$8,000	100%
Guadalupe Mines	2022	5313	New Receptacle	$8,000	$8,000	100%
Lower Northwood	2023	5309	New Receptacle	$72,236	$0	0%
Mabury Groundwater	2023	5211	New Permanent	$858,000	$0	0%
Perie Lane	2022	5252	New Permanent	$150,000	$150,000	100%
Idylwild/Oakmont	2023	5281	New Permanent	$298,262	$0	0%
Three Mile	2022 [41]	5751	Replacement Portable	$235,000	$0	0%
Vickery	2022	5545	Replacement Permanent	$860,500	$860,500	100%
Will Wool #11	2022	5754	Replacement Portable	$235,500	$0	0%
Buena Vista	2023	5753	Replacement Permanent	$929,000	$0	0%
12th St	2023	5985	Replacement Permanent	$929,000	$0	0%
Cox	2023	5758	Replacement Permanent	$842,700	$842,700	100%
Locust #42	2023	5878	Replacement Portable	$171,600	$171,600	100%
TOTAL	**-**	**-**	**-**	**$7,789,534**	**$2,113,036**	**27.1%**

[END OF CHAPTER]

[41] The Three Mile Generator Replacement is part of the 2021 plant budget, which is used to estimate the 2022 plant balance.

CHAPTER 2: EMERGENCY PREPAREDNESS

I. Introduction

In the event of a natural disaster or emergency, SJWC currently relies on detailed planning documents to help guide its immediate actions such as the Emergency Response Plan and the Public Safety Power Shutoff (PSPS) Planning Spreadsheet.[42] SJWC also has a Disaster Relief Plan to direct its actions immediately after a disaster is proclaimed by the California Governor or the President.[43] The purpose of the plan is to provide information to customers about SJWC's support that is available to them in a disaster, in accordance with D.19-07-015.

The Disaster Relief Plan provides details on how to notify SJWC customers of SJWC's emergency-related relief and has made this emergency information available on the SJWC website in multiple languages.[44] The plan includes before-, during-, and after-disaster scenarios within which SJWC will provide information using multiple methods to the customer. D.19-07-015 identifies the appropriate costs allowable in any Catastrophic Event Memorandum Accounts (CEMA) opened because of a declared disaster.

SJWC provided its Emergency Response Plan with this GRC application, detailing the specific steps in place to mitigate and approach various emergency situations. Rulemaking 15-06-009 was initiated to create standardized rules for addressing utilities' security risks and emergency preparedness plans in accordance with Public Utilities Code § 364 and § 768.6.[45] In May 2021, a decision was ordered that addressed the issues related to utilities' emergency preparedness plans.

[42] Attachment 1-2 Response to DR NM-03 Q.3 and MDR II.E.17.
[43] SJW Disaster Relief – Customer Outreach Plan_9Sept2019 (002).
[44] https://www.sjwater.com/disaster-relief.
[45] April 5, 2021 Proposed Decision for R.15-06-009.

II. Summary of Recommendations

SJWC has followed the Commission authorized Disaster Relief Plan in its response to the COVID-19 Pandemic. Its current application does not seek relief for the expenses recorded in its COVID-19 CEMA. If SJWC does seek relief for COVID-19 related expenses, the Commission should ensure that the costs are appropriate and authorized in accordance with D.19-07-015.

To comply with D.21-05-019 on Phase II Issues Relating to Emergency and Disaster Preparedness Plans, SJWC should develop and codify in the Emergency Response Plan the assistance SJWC will provide to customers with accessibility needs.

III. Discussion

SJWC's GRC application references the customer protections that it has enacted during the COVID-19 pandemic. In 2019, the Commission mandated that certain customer protections be communicated to customers and made available after an emergency was declared by the California Governor or the President.[46] SJWC has halted service disconnections in compliance with the state-wide disconnection suspension executive order.[47] In March 2020, SJWC filed Advice Letter (AL) 546 and AL 549 in response to Governor Newsom declaring a state of emergency in response to the COVID-19 pandemic. SJWC's application confirms that the customer protections identified in SJWC's Disaster Relief Plan are enacted.[48] Emergency disaster relief information for both the COVID-19 pandemic and other disasters is provided on SJWC's website in multiple languages, in accordance with D.19-07-015.[49] SJWC informed the Commission that it has activated a Catastrophic Event Memorandum Account (CEMA) for any costs associated with the COVID-19 pandemic.[50] In this application, SJWC is not requesting to

[46] D.19-07-015.
[47] Executive Order N-42-20.
[48] SJWC 2021 GRC Application, p. 4.
[49] https://www.sjwater.com/disaster-relief
[50] AL 546.

recover any expenses incurred in the COVID-19 CEMA account.[51] The application also does not specify all the costs that are being recorded in the COVID-19 CEMA. SJWC, however, confirms that bills waived as a result of the pandemic are being recorded separately from arrearages, and that arrearages resulting from the declared disaster are being recorded in the CEMA.[52] When SJWC requests to recover the COVID-19 related expenses in the future, the Commission should ensure that the costs are reasonable, not double-counted, and appropriately recorded as authorized under D.19-07-015.

SJWC's Emergency Response Plan is lacking information about providing emergency water access to customers with accessibility needs in light of D.21-05-019 relating to Phase II Issues Relating to Emergency and Disaster Preparedness Plans on May 20, 2021. The decision states in ordering paragraphs 37 and 38:

> 37. All regulated Class A, B, C, and D water companies shall have emergency plans that address contingencies for temporary water supplies, such as water trucks and bottled water during an emergency.
>
> 38. All regulated Class A, B, C, and D water companies shall have emergency plans that address how they will ensure that individuals with access and functional needs during an emergency will have access to water trucks and bottled water.[53]

SJWC's Emergency Response Plan that was submitted in this GRC application's minimum data responses sufficiently details the plan for acquiring short term water sources but lacks information about how SJWC will provide access to that water.[54] To comply with the recent decision's ordering paragraph 38, SJWC should develop and codify in the Emergency Response Plan the assistance that SJWC will provide to those customers that require it due to accessibility needs.

[51] Attachment 1-5 SJWC Response to DR NM-006, Q.3.
[52] Attachment 1-6 SJWC Response to DR NM-009, Q.4.
[53] D.21-05-019, ordering paragraph 37 and 38, p. 45.
[54] MDR II.E.17, p. 29.

IV. Conclusion

SJWC has followed the Commission authorized Disaster Relief Plan in its response to the COVID-19 Pandemic. Its current application does not seek to recover expenses recorded in its COVID-19 CEMA. If SJWC requests to recover the COVID-19 related expenses in the future, the Commission should ensure that the costs are reasonable, not double-counted, and appropriately recorded as authorized under D.19-07-015.

To comply with D.21-05-019 on Phase II Issues Relating to Emergency and Disaster Preparedness Plans, SJWC should develop and codify in the Emergency Response Plan the assistance SJWC will provide to customers with accessibility needs.

[END OF CHAPTER]

ATTACHMENT 1-1: STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS – NIAMH MURPHY

Q1. Please state your name, business address, and position with the California Public Utilities Commission ("Commission").

A1. My name is Niamh Murphy, and my business address is 505 Van Ness Avenue, San Francisco, California 94102. I am a Utilities Engineer in the Water Branch of the Public Advocates Office.

Q2 By whom are you employed and in what capacity?

A2. I am employed by the CPUC to act as a Utilities Engineer within the Water Branch of the Public Advocates Office.

Q3. Please summarize your education background and professional experience.

A3. I graduated from University of Washington with a Master's degree in Civil Engineering in 2019. In 2016, I graduated from UC Berkeley with a B.S. in Environmental Science and a minor in Energy Resources. I joined the Public Advocates Water Branch in 2020.

Q4. What is your responsibility in this proceeding?

A4. I am responsible for providing testimony for Non-Tariff Products and Services, Balancing and Memorandum Accounts, and portions of Plant regarding generators.

Q5. Does this conclude your prepared direct testimony?

A5. Yes, at this time.

ATTACHMENT 1-2: SJWC RESPONSE TO DR NM-003

SAN JOSE WATER
110 W. Taylor Street
San Jose, CA 95110-2131

February 8, 2021

Ting-Pong Yuen
Public Advocates Office
California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102

Re: Response to Data Request NM-03
General Rate Case Application 21-01-003

Dear Mr. Yuen:

Enclosed you will find San Jose Water Company's (SJWC) response to data request NM-003 dated January 27, 2021. The information was prepared by:

Jake Walsh, P.E.
Assistant Chief Engineer
408-279-7850
jake.walsh@sjwater.com

Due to the current shelter-in-place order, SJWC will only provide responses electronically. Hard copies will not be provided.

If you have any questions, please contact me.

Very truly yours,

John B. Tang, P.E.
Vice President of Regulatory Affairs
& Government Relations

cc: Niamh Murphy, Public Advocates Office
Munkuda Dawadi, Public Advocates Office
Angela Wuerth, Public Advocates Office

1

RESPONSES

1. Provide a description of, justification for, and construction or purchasing timeline for each of the plant additions listed in "DR NM-003 attachment 1".

   SJWC Reponse: All generators that were selected for replacement have reached the end of their useful lives. Please see the Generator Tactical Asset Management Plan in Appendix 2 of Exhibit G for more information on how generators were evaluated for replacement. See Attachment 1 for the requested information.

2. Provide a map or list of facilities that were affected by the Public Safety Power Shutoff events on October 10 and October 26, 2019.
   a. Of the facilities that were affected, which were able to shift to using generated power, and which remained without power and for how long?

   b. Of the facilities that were able to shift to generated power, what type of generators did each facility use?

   c. Which facilities used portable generators that had to be moved from another location to the affected facilities, if any?

      SJWC Response: Please see both tabs in Attachment 2 for the information requested in a-c. The highlighted cells indicate portable generators that were moved from one affected facility to another affected facility.

3. Is there a protocol in place to facilitate the moving of portable generators to facilities when they are needed? If so, please provide it.

   SJWC Response: In the event of a large scale power outage, SJWC's protocol is to use an internally developed PSPS Planning Spreadsheet to plan for the event and track critical information throughout the event such as tank levels, fuel levels, and generator locations (see Attachment 3). SJWC uses the planning spreadsheet to decide when and where to deploy portable generators based on available operational storage and historical usage (rate of level change for each tank). Stations are prioritized based on criticality and location such that generators are spaced evenly throughout the distribution system. Finally, the planning spreadsheet contains a generator matrix that lists which portable generators are compatible with which facilities and the number of pumps that can be operated by that portable generator.

4. When considering the need for independent generated power at facilities, were non-fossil fuel alternatives considered? Describe your justifications for the fuel source used and your analysis.

   SJWC Response: Since 2019, SJWC has used sustainable Neste biofuels for its diesel vehicle fleet and diesel generators. Neste biofuels, which are produced from 100% renewable raw materials, can reduce greenhouse gas emissions by up to 90% over the lifecycle of the fuel compared to conventional fossil diesel.

5. List any generators or alternative energy sources that you purchased, replaced, or repaired from 2017-2019. If that information has already been provided, please identify where in the application this information is located.

   SJWC Response: Generator installation years can be found in Table A-3 of the Generator Tactical Asset Management Plan in Appendix 2 of Exhibit G, except for

1

generators at raw water intakes or water treatment plants which are covered in the Raw Water Infrastructure Asset Management Technical Memorandum and the Water Treatment Plant Asset Management Technical Memorandum respectively.

Generator Name	Generator Type	Install Year
Three Mile (#70)	Portable	2017
Montevina Filter Plant	Permanent	2017
Tully	Permanent	2017
Williams (Front)	Permanent	2017
Meridian	Permanent	2018
Ostwald Intake	Permanent	2018

6. Provide the estimated construction costs of the permanent or standby generators at #5211 Mabury Groundwater Station, #5252 Perie Lane Station, #5821 Idylwild Station, #5670 Saratoga Water Station, and #5748 Williams Station.

SJWC Response: Construction of new standby generators is not in the scope of work for #5670 Saratoga Water Treatment Plant Replacement Design or #5748 Williams Station Treatment System. The costs of generators at Mabury Groundwater Station, Perie Lane Station, and Idylwild Station are listed in the following table. All costs are in 2020 dollars.

Index #	Station	Cost of Generator [1]
5211	Mabury Groundwater Station	$ 1,124,840
5252	Perie Lane Station	$ 209,270
5281	Idylwild Station	$ 396,080

[1] Includes cost of concrete pad where applicable; Does not include cost of Company Labor.

a. Are there any obstacles to using existing portable generators on these proposed sites?

SJWC Response: Mabury Station will be a critical source of supply for SJWC under normal operations and especially during Valley Water outages. It is SJWC's practice to install permanent genertors at critical sources of water supply to ensure continuous water service during emergencies. Please see the Mabury Groundwater Station Improvement justification beginning on page 203 of Exhibit G for more details.

Perie Lane Station contains a pressure system. During a power outage, the pressure system must be immediately re-energized or service connections within Perie Lane Pressure Zone will drop below 40 psi within a short duration. There is not adequate response time to deploy a portable generator and one may not be available depending on the situation. In general, it is SJWC's practice to install permanent generators at all stations with pressure systems. Please see the Perie Lane Station Improvement justification beginning on page 148 of Exhibit G for more details.

The location and criticality of Idylwild Station necessitates a permanent generator. Following a major earthquake, access to Idylwild Station may be restricted such that a portable generator cannot be deployed. This station must remain in service as it will be the only source of water to SJWC's Mountain System. After the Loma Prieta earthquake in 1989, substaintial damage occurred to the roads near Idylwild station and portions of Highway 17 were shut down for

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32 days. Please see the Idylwild Station Improvement and Relocation justification beginning on page 280 of Exhibit G for more details.

7. Provide the estimated construction costs of the generator receptacles at #5222 Canyon Creek Station, #5312 Belgatos Pump Station, and #5313 Guadalupe Mines Station.

   SJWC Response: The cost of a generator receptacle is listed in the following table in 2020 dollars.

Material	Install	Contingencies	Overhead	Total [1]
$3,000	$5,000	$1,650	$1,770	$14,420

[1] Does not include cost of Company Labor.

   a. Do these sites already have existing generator receptacles and/or manual transfer switches?

      SJWC Response: Guadalupe Mines station has an existing receptable for a portable generator. However, a new receptacle must be installed with the replacement MCC. Belgatos station and Canyon Creek station do not have existing generator receptacles.

   b. Are there any other sites without generator receptacles and/or manual transfer switches, that currently have no way to use your stock of portable generators?

      SJWC Response: The following pump stations do not have a permanent generator or portable generator receptacle: Almondwood Station, Canyon View Station, Lower Northwood Station, Meadow Lane Station, Pelleas Station, Perie Lane Station, Regnart Canyon Station, Regnart Road Station, and Snell Station.

8. Does the Regnart Canyon site have access to generator power, either portable or permanent? Describe the type of generated power Regnart Canyon has access to.

   SJWC Response: Regnart Canyon station does not have a permanent generator or a portable generator receptacle. It has no access to a backup power supply.

END OF RESPONSE

1

ATTACHMENT 1-3: SJWC RESPONSE TO DR NM-007

SAN JOSE WATER
110 W. Taylor Street
San Jose, CA 95110-2131

March 8, 2021

Ting-Pong Yuen
Public Advocates Office
California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102

Re: Response to Data Request NM-07
General Rate Case Application 21-01-003

Dear Mr. Yuen:

Enclosed you will find San Jose Water Company's (SJWC) response to data request NM-07 dated February 26, 2021. The information was prepared by:

Jake Walsh, P.E.
Assistant Chief Engineer
408-279-7850
jake.walsh@sjwater.com

Due to the current shelter-in-place order, SJWC will only provide responses electronically. Hard copies will not be provided.

If you have any questions, please contact me.

Very truly yours,

John B. Tang, P.E.
Vice President of Regulatory Affairs
& Government Relations

cc: Niamh Murphy, Public Advocates Office
Mukunda Dawadi, Publics Advocates Office
Angela Wuerth, Public Advocates Office

1

RESPONSES

1. Please complete the highlighted cells in Excel document "DR NM-007 Attachment 1" for the listed generators.
    a. In column B, provide the total hours that each generator has been running, including for maintenance and testing purposes.
    b. In column C, provide the hours each generator ran when it was actively providing power for the site due to emergencies, power outages, etc.
    c. In column D, provide an estimate of the daily energy (in kWh) that is needed by each station to function during an emergency such as a PSPS event. If there are certain assumptions made (such as operating at reduced capacity or the amount of fuel reserves in each generator) please state them.
    d. In column E, provide the nameplate capacity (in MW) of each of the new proposed generators at each site.

    SJWC Response: Please see Attachment 1 for responses to 1a-d. The active hours run is an estimate based on the total hours run and hours run for preventative maintenance activities. The site daily power requirements in kWh/day during an emergency event were estimated using the volumes pumped in MG from each station during the PSPS events from 10/10/2019 through 10/11/2019 and 10/26/2019 through 10/29/2019 and the estimated kWh/MG for each station in 2020. Three Mile Portable Generator #10 and Will Wool Portable Generator #11 were not used during the PSPS events in October of 2019. As these portable generators can power a number of stations, it is difficult to estimate what their site daily power requirements would be during a future emergency scenario.

2. Provide the most recent load test results and condition reports for each of the 7 generators listed in "NM DR-007 Attachment 1" as indicated by your Operations and Fleet staff.

    SJWC Response: SJWC has requested information from our power provider. It is estimated that the information will be provided and SJWC will be able to response by Friday, March 12th.

3. Do your portable generator receptacles have automatic or manual transfer switches? If a mix of both, please indicate which stations or what type of sites have which switches.

    SJWC Response: The majority of stations have automatic transfer switches. Stations with manual transfer switches include: Azores, Belgatos, Greenridge, Hill Lane, Holy City, Kirk, Locust, New Jersey, Oakmont, and Tollgate stations.

4. Please provide a list of the individual replacement ages for SJWC's portable generators that have been replaced in the past 15 years. Please provide a list of the individual replacement ages for SJWC's permanent generators that have been replaced in the past 15 years.

    SJWC Response: The following table is a list of portable and permanent generators that have been replaced in the past 15 years and their age at the time of retirement.

Generator Name	Generator Type	Age at Retirement
Tully	Permanent	24
Meridian	Permanent	23
Santa Rosa	Permanent	19
Summit	Permanent	26
Ostwald Intake	Permanent	20
Montevina Filter Plant	Permanent	9

1

Montevina Filter Plant	Permanent	15
Generator #9	Portable	12

END OF REQUEST

1

	A	B	C	D	E	F
1	**Generator ID**	**Total hours run**	**Active hours run**	**Power Requirements (kWh/day) [1][2]**	**New Nameplate Capacity (MW)**	
2	**G31 - Vickery**	709.6	486	849	0.35	
3	**G06 - Buena Vista**	455.7	232	10,918	0.75	
4	**G28 - 12th Station**	406.7	183	8,656	0.75	
5	**G12 - Cox Station**	411.4	187	3,285	0.5	
6	**G10 - Three Mile #10**	2731.9	2508	-	0.275	
7	**G11 - Will Wool #11**	2048.2	1828	-	0.275	
8	**G42 - Locust #42**	297.5	126	152	0.135	
9						
10	[1] Three Mile Portable Generator #10 and Will Wool Portable Generator #11 were not used during the PSPS events in October of 2019. As these portable generators can power a number of stations, it is difficult to estimate what their site daily power requirements would be during a future emergency scenario. [2] Locust Portable Generator #42 was used to power Locust Station during both PSPS events in October of 2019. However, as it is a portable generator, it could be moved during a future emergency scenario and the power requirement when responding to that future event would be different.					
11						

2

SAN JOSE WATER
110 W. Taylor Street
San Jose, CA 95110-2131

March 12, 2021

Ting-Pong Yuen
Public Advocates Office
California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102

Re: Response to Data Request NM-07 Question 2
General Rate Case Application 21-01-003

Dear Mr. Yuen:

Enclosed you will find San Jose Water Company's (SJWC) response to Question 2 of data request NM-07 dated February 26, 2021. The information was prepared by:

Jake Walsh, P.E.
Assistant Chief Engineer
408-279-7850
jake.walsh@sjwater.com

Due to the current shelter-in-place order, SJWC will only provide responses electronically. Hard copies will not be provided.

If you have any questions, please contact me.

Very truly yours,

John B. Tang, P.E.
Vice President of Regulatory Affairs
& Government Relations

cc: Niamh Murphy, Public Advocates Office
Mukunda Dawadi, Public Advocates Office
Angela Wuerth, Public Advocates Office

1

RESPONSE

2. Provide the most recent load test results and condition reports for each of the 7 generators listed in "NM DR-007 Attachment 1" as indicated by your Operations and Fleet staff.

SJWC Response: Please see Attachment 2 for the load test results and condition reports.

END OF RESPONSE

1

G31

Valley
POWER SERVICES, INC.
A Valley Power Systems Company

4000 Rosedale Highway, Bakersfield, CA 93308 (661) 325-9001
425 South Hacienda Blvd., City of Industry, CA 91745 (626) 333-1243
2935 S. Orange Ave., Fresno, CA 93725 (559) 485-0900
2070 Farallon Drive, San Leandro, CA 94577 (510) 635-9991
11300 Inland Ave., Mira Loma, CA 91752 (951) 681-9293
1520 S. Bon View Ave., Ontario, CA 91761 (909) 969-9345
5725 Eastgate Drive, San Diego, CA 92121 (858) 587-8524
1111 NW 45th Street, Seattle, WA 98107 (206) 709-0723
855 Stillwater Road, West Sacramento, CA 95691 (916) 372-5078

Equipment Inspection Sheet

Customer	Address	R.O. No.	Date
SAN JOSE WATER	14900 VICKERY AVE, SARATOGA CA	k56709	11/20/20
Engine Manufacturer	**Generator Manufacturer**	**Equipment Manufacturer**	**Unit No.**
DETROIT DIESEL		KATOLIGHT	G31
Engine Model	**Generator Model No.**	**Equipment Model No.**	**Hours/Miles**
80837405		D350FRX4	706
Engine Serial No.	**Generator Serial No.**	**Equipment Serial No.**	
08VF158880		ZM4091626 S-40662	
Engine Spec No.	**Generator Spec No.**		

[OK] Satisfactory [X] Needs Attention [N/A] Not Applicable

Obtain Authorization & Access	OK
Check Oil Level	OK
Check Operation of Block Heaters	OK
Block Heater Info: -	
Antifreeze Protection	OK
Corrosion Inhibitor Protection	OK
Check Radiator/Expansion Tank Cap	OK
Instruments (Under load if possible)	OK
Oil Pressure	55 PSI
Water Temperature	160 °F
Fuel Pressure	N/A PSI
DC Charge Rate 27.6 VDC	0.0 Amps
Check/Correct Minor Oil Leaks	OK
Check/Correct Minor Water Leaks	OK
Check/Correct Minor Fuel Leaks	OK
Check Governor Response	OK
Draw Hot Oil Sample	N/A
Turbocharger Rotation/End Play	OK
Lubricate Governor Linkage	N/A
Check Hoses (Brittle, Cracks, Weak)	OK
Check/Tighten Hose Clamps as necessary	OK
Inspect Radiator Fins for Debris	OK
Lubricate Fan Drive Assembly	N/A
Check/Adjust Belts as Required	OK
Check for Water in Day Tank	N/A
Check Operation of Day Tank	N/A
Inspect Air Filter(s)	X
Check Vibration Isolation Equipment	OK
Check for Air Restrictions	OK
Check Exhaust System	OK
Fuel Level	30 %

Safety Systems

High Water Temperature	N/A
Low Oil Pressure	N/A
Over Crank	N/A
Over Speed	N/A

Generators

Rated 350 kW 437 KVA 277/480 Volts 526 Amp
No Load Actual 481 Voltage 60 Hz

Transfer Test
(if authorized on site)

Volts N/A N/A N/A Amps N/A N/A N/A
Frequency under load N/A Hz

Check Exciter/Regulator Connections	N/A
Check Brushes and Slip Rings	N/A
Lube Generator Bearings as Required	N/A
Check ATS for Cleanliness	N/A

Generator Breaker
Found ON Left ON

Control Panel
Found AUTO Left AUTO

Charger Output and Battery Condition
Battery Qty 2 Type 8D
#1 DC Charger 27.6 Volts 0.0 Amps
#2 DC Charger _____ Volts _____ Amps
Battery Load Test & Comments

BATTERY TEST RESULTS:		
#1: 13.74V	1400CCA RATED/ TESTED 1385CCA	GOOD
#2: 13.75V	1400CCA RATED/ TESTED 1339CCA	GOOD

Inspect/Clean/Tighten Lugs & Cables	OK
Fill Low Cells with Water	OK

Materials Used

Lube Oil Type SAE 40 20 qts

Oil Analysis	Qty		P/N
Cool Analysis	Qty		P/N
Fuel Filter	Qty	1	P/N
Fuel Filter	Qty	1	P/N
Oil Filter	Qty	1	P/N
	Qty		P/N
	Qty		P/N

Comments/Recommendation by Technician:

FOUND AIR FILTER DIRTY, REPLACE.
FILL UNIT WITH DIESEL FUEL

Technician's Signature

Customer's Signature

1

Valley
POWER SERVICES, INC.
A Valley Power Systems Company

4000 Rosedale Highway, Bakersfield, CA 93308 (661) 326-9001
425 South Hacienda Blvd., City of Industry, CA 91745 (626) 333-1243
2935 S. Orange Ave., Fresno, CA 93725 (559) 486-0900
2070 Farallon Drive, San Leandro, CA 94577 (510) 635-8991
11300 Inland Ave., Mira Loma, CA 91752 (951) 681-9283
1520 S. Bon View Ave., Ontario, CA 91761 (909) 989-9345
5725 Eastgate Drive, San Diego, CA 92121 (888) 587-8524
1111 NW 45th Street, Seattle, WA98107 (206) 789-0723
856 Stillwater Road, West Sacramento, CA 95691 (916) 372-5076

G31 **Load Test**

Customer: SAN JOSE WATER	Address: 14900 VICKERY AVE, SARATOGA CA	R.O. No.: k56709	Date: 11/20/20	KW/KVA Rating: 350/437	
Engine Manufacturer:	Generator Manufacturer:	Equipment Manufacturer: KATOLIGHT	Unit No.: G31	Volts: 277/480	
Engine Model: 80837405	Generator Model No.:	Equipment Model No.: D350FRX4	Hours/Miles: 706	Phase: 3	
Engine Serial No.: 08VF158880	Generator Serial No.:	Equipment Serial No.: ZM4091626 S-40662		Tested By: RAMIRO SALDIVAR	
Engine Spec No.:	Generator Spec No.:	Witnessed By:		Date: 11/20/20	

	VOLTAGE				AMPS														
TIME	L1	L2	L3	AVG	L1	L2	L3	%LOAD	KW	KVA	Hz	PF	OIL PSI	FUEL PSI	WATER TEMP	OIL TEMP	AMBIENT TEMP	FRAME TEMP	DC VOLTS
1015	481	481	481	481	217	216	215	51	180	180	60	1.0	58	-	130	-	55	-	27.6
1030	481	481	481	481	217	216	215	51	180	180	60	1.0	55	-	145	-	54	-	27.6
1045	481	481	481	481	217	216	215	51	180	180	60	1.0	55	-	160	-	54	-	27.6
1100	481	481	481	481	217	216	215	51	180	180	60	1.0	55	-	160	-	57	-	27.6
1115	481	481	481	481	217	216	215	51	180	180	60	1.0	55	-	160	-	55	-	27.6
1130	482	482	482	482	217	216	216	51	181	181	60	1.0	55	-	160	-	55	-	27.6
1145	482	482	482	482	272	272	271	65	227	227	60	1.0	55	-	170	-	55	-	27.6
1200	482	482	482	482	272	272	271	65	227	227	60	1.0	55	-	170	-	55	-	27.6
1215	482	482	482	482	272	272	271	65	227	227	60	1.0	55	-	170	-	55	-	27.6
1230	482	482	482	482	319	319	318	76	266	266	60	1.0	55	-	170	-	61	-	27.6
1245	482	482	482	482	319	319	318	76	266	266	60	1.0	55	-	170	-	61	-	27.6
1300	482	482	482	482	320	319	318	76	267	267	60	1.0	55	-	170	-	61	-	27.6
1315	482	482	482	482	320	319	318	76	267	267	60	1.0	55	-	170	-	61	-	27.6
1330	482	482	482	482	320	319	318	76	267	267	60	1.0	55	-	170	-	61	-	27.6
1345	482	482	482	482	320	319	318	76	267	267	60	1.0	55	-	170	-	63	-	27.6
1400	482	482	482	482	320	319	318	76	267	267	60	1.0	55	-	170	-	63	-	27.6
1415	482	482	482	482	320	319	318	76	267	267	60	1.0	55	-	170	-	63	-	27.6

TEST INSTRUMENTS	MAKE	MODEL	CALIBRATION DATE	ACCURACY	MAXIMUM KILOWATT LOAD
FREQUENCY METER					MAXIMUM KILOWATT PICK-UP
VOLTMETER					
AMMETER					COMMENTS:

G06

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A Valley Power Systems Company

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2070 Farallon Drive, San Leandro, CA 94577 (510) 635-8991
11300 Inland Ave., Mira Loma, CA 91752 (951) 681-9283
1520 S. Bon View Ave., Ontario, CA 91761 (909) 969-9345
5725 Eastgate Drive, San Diego, CA 92121 (858) 587-8524
1111 NW 45th Street, Seattle, WA98107 (206) 789-0723
855 Stillwater Road, West Sacramento, CA 95691 (916) 372-5078

Equipment Inspection Sheet

Customer	Address	R.O. No.	Date
SAN JOSE WATER	420 BUENA VISTA AVE, SAN JOSE, (	56659	10-27-20
Engine Manufacturer	**Generator Manufacturer**	**Equipment Manufacturer**	**Unit No.**
DETROIT		KATO LIGHT	G06
Engine Model	**Generator Model No.**	**Equipment Model No.**	**Hours/Miles**
16V-92TA		GM05958-02 E-41513	444.1
Engine Serial No.	**Generator Serial No.**	**Equipment Serial No.**	
8163-7405		D-750FRX4	
Engine Spec No.	**Generator Spec No.**		

[OK] Satisfactory [X] Needs Attention [N/A] Not Applicable

Obtain Authorization & Access	OK
Check Oil Level	OK
Check Operation of Block Heaters	OK
Block Heater Info:	
Antifreeze Protection	N/A
Corrosion Inhibitor Protection	N/A
Check Radiator/Expansion Tank Cap	OK
Instruments (Under load if possible)	OK
Oil Pressure	60 PSI
Water Temperature	180 °F
Fuel Pressure	N/A PSI
DC Charge Rate 27.5 VDC	Amps
Check/Correct Minor Oil Leaks	OK
Check/Correct Minor Water Leaks	OK
Check/Correct Minor Fuel Leaks	OK
Check Governor Response	OK
Draw Hot Oil Sample	N/A
Turbocharger Rotation/End Play	OK
Lubricate Governor Linkage	OK
Check Hoses (Brittle, Cracks, Weak)	OK
Check/Tighten Hose Clamps as necessary	OK
Inspect Radiator Fins for Debris	OK
Lubricate Fan Drive Assembly	OK
Check/Adjust Belts as Required	OK
Check for Water in Day Tank	OK
Check Operation of Day Tank	OK
Inspect Air Filter(s)	OK
Check Vibration Isolation Equipment	OK
Check for Air Restrictions	OK
Check Exhaust System	OK
Fuel Level	70 %

Safety Systems

High Water Temperature	N/A
Low Oil Pressure	N/A
Over Crank	N/A
Over Speed	N/A

Generators

Rated 750 kW 937.5 KVA 277/480 Volts 1128 Amp
No Load Actual 477 Voltage 60 Hz

Transfer Test

(if authorized on site)
Volts _____ Amps _____
Frequency under load _____ Hz

Check Exciter/Regulator Connections	
Check Brushes and Slip Rings	
Lube Generator Bearings as Required	
Check ATS for Cleanliness	

Generator Breaker

Found CLOSED Left CLOSED

Control Panel

Found AUTO Left AUTO

Charger Output and Battery Condition

Battery Qty 4 Type 8D
#1 DC Charger 26.3 Volts _____ Amps
#2 DC Charger _____ Volts _____ Amps
Battery Load Test & Comments

Inspect/Clean/Tighten Lugs & Cables	OK
Fill Low Cells with Water	OK

Materials Used

Lube Oil Type 15W-40 17GAL qts

Oil Analysis	Qty		P/N
Cool Analysis	Qty		P/N
Fuel Filter	Qty	1	P/N
Fuel Filter	Qty	1	P/N
Oil Filter	Qty	2	P/N
	Qty		P/N
	Qty		P/N

Comments/Recommendation by Technician:

ADDED 3 GALLONS OF COOLANT TO UNIT..

Technician's Signature

Customer's Signature

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Load Test

Customer SAN JOSE WATER	**Address** 420 BUENA VISTA AVE, SAN JOSE, CA	**R.O. No.** 56659	**Date** 10-27-20	**KW/KVA Rating**
Engine Manufacturer	**Generator Manufacturer**	**Equipment Manufacturer** KATO LIGHT	**Unit No.** GOL9	**Volts:**
Engine Model 16V-92TA	**Generator Model No.**	**Equipment Model No.** GM05958-02 E-41513	**Hours/Miles** 444.1	**Phase:**
Engine Serial No. 8163-7405	**Generator Serial No.**	**Equipment Serial No.** D-750FRX4		**Tested By:**
Engine Spec No.	**Generator Spec No.**	**Witnessed By:**		**Date:**

	VOLTAGE				AMPS														
TIME	L1	L2	L3	AVG	L1	L2	L3	%LOAD	KW	KVA	Hz	PF	OIL PSI	FUEL PSI	WATER TEMP	OIL TEMP	AMBIENT TEMP	FRAME TEMP	
0945	477	478	477		458	459	456		378		60	1.0	65		160	196	54		
1000	477	478	477		458	458	456		378		60	1.0	60		160	204	54		
1015	477	478	477		458	459	456		378		60	1.0	60		160	208	55		
1030	476	477	476		789	792	788		652		60	1.0	55		170	219	61		
1100	476	474	475		789	792	788		650		60	1.0	55		170	220	61		
1130	476	474	475		789	792	788		650		60	1.0	50		170	226	64		
1200	476	475	475		789	792	788		651		60	1.0	50		170	227	68		
1230	477	475	476		789	792	788		651		60	1.0	50		170	224	73		
1300	477	477	477		789	792	788		652		60	1.0	50		170	225	75		
1330	477	477	477		789	792	788		652		60	1.0	50		170	227	75		
1345	477	477	477		789	792	78		652		60	1.0	50		170	225	75		

TEST INSTRUMENTS	MAKE	MODEL	CALIBRATION DATE	ACCURACY	MAXIMUM KILOWATT LOAD
FREQUENCY METER					MAXIMUM KILOWATT PICK-UP
VOLTMETER					
AMMETER					COMMENTS:

G28

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2070 Farallon Drive, San Leandro, CA 94577 (510) 635-9991
11300 Inland Ave., Mira Loma, CA 91752 (951) 681-9283
1520 S. Bon View Ave., Ontario, CA 91761 (909) 969-9345
5720 Eastgate Drive, San Diego, CA 92121 (858) 587-8524
1111 NW 45th Street, Seattle, WA 98107 (206) 789-0723
855 Stillwater Road, West Sacramento, CA 95691 (916) 372-5078

Equipment Inspection Sheet

Customer	Address	R.O. No.	Date
SJW	950 S. 12TH ST, SAN JOSE CA.	K56706	10/07/20
Engine Manufacturer	**Generator Manufacturer**	**Equipment Manufacturer**	**Unit No.**
DETROIT DIESEL		KATOLIGHT	G28
Engine Model	**Generator Model No.**	**Equipment Model No.**	**Hours/Miles**
16V-92TA		D750FRX4	399/403.9 hrs
Engine Serial No.	**Generator Serial No.**	**Equipment Serial No.**	
8163-7405		GM5958-01	
Engine Spec No.	**Generator Spec No.**		

[OK] Satisfactory [X] Needs Attention [N/A] Not Applicable

Obtain Authorization & Access	OK
Check Oil Level	OK
Check Operation of Block Heaters	OK
Block Heater Info: CL130119-200/1500W/120 VAC	
Antifreeze Protection	NA
Corrosion Inhibitor Protection	NA
Check Radiator/Expansion Tank Cap	OK
Instruments (Under load if possible)	OK
Oil Pressure	60 PSI
Water Temperature	185 °F
Fuel Pressure	NA PSI
DC Charge Rate 27.75 VDC	NA Amps
Check/Correct Minor Oil Leaks	OK
Check/Correct Minor Water Leaks	OK
Check/Correct Minor Fuel Leaks	OK
Check Governor Response	OK
Draw Hot Oil Sample	NA
Turbocharger Rotation/End Play	OK
Lubricate Governor Linkage	OK
Check Hoses (Brittle, Cracks, Weak)	OK
Check/Tighten Hose Clamps as necessary	OK
Inspect Radiator Fins for Debris	OK
Lubricate Fan Drive Assembly	NA
Check/Adjust Belts as Required	OK
Check for Water in Day Tank	NA
Check Operation of Day Tank	NA
Inspect Air Filter(s)	OK
Check Vibration Isolation Equipment	OK
Check for Air Restrictions	OK
Check Exhaust System	OK
Fuel Level	100 %

Safety Systems

High Water Temperature	OK
Low Oil Pressure	OK
Over Crank	OK
Over Speed	OK

Generators

Rated 750 kW 937.5 KVA 277/480 Volts 1128 Amp
No Load Actual 480 Voltage 60 Hz

Transfer Test

(if authorized on site)
Volts NA NA NA Amps NA NA NA
Frequency under load NA Hz

Check Exciter/Regulator Connections	OK
Check Brushes and Slip Rings	OK
Lube Generator Bearings as Required	NA
Check ATS for Cleanliness	NA

Generator Breaker

Found ON Left ON

Control Panel

Found AUTO Left AUTO

Charger Output and Battery Condition

Battery Qty 4 Type 8D-MHD
#1 DC Charger 13.2 Volts 1400 CCA Amps
#2 DC Charger _____ Volts _____ Amps
Battery Load Test & Comments

Inspect/Clean/Tighten Lugs & Cables	OK
Fill Low Cells with Water	OK

Materials Used

Lube Oil Type _____ _____ qts

Oil Analysis	Qty	P/N	
Cool Analysis	Qty	P/N	
Fuel Filter	Qty	P/N	
Fuel Filter	Qty	P/N	
Oil Filter	Qty	P/N	
	Qty	P/N	
	Qty	P/N	

Comments/Recommendation by Technician:

Technician's Signature

Customer's Signature

1

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G28

Load Test

Customer: SJW	Address: 950 S. 12TH ST, SAN JOSE CA.	R.O. No.: K56706	Date: 10/07/20	KW/KVA Rating: 750 KW/ 937.5 KVA	
Engine Manufacturer:	Generator Manufacturer:	Equipment Manufacturer: KATOLIGHT	Unit No.: G28	Volts: 277/480	
Engine Model: 16V-92TA	Generator Model No.:	Equipment Model No.: D750FRX4	Hours/Miles: 398/403.9 hrs	Phase: 3	
Engine Serial No.: 8163-7405	Generator Serial No.:	Equipment Serial No.: GM5958-01		Tested By: RITHTY CHAN/ ROB NEELY	
Engine Spec No.:	Generator Spec No.:	Witnessed By:		Date: 10-7-2020	

	VOLTAGE				AMPS														
TIME	L1	L2	L3	AVG	L1	L2	L3	%LOAD	KW	KVA	Hz	PF	OIL PSI	FUEL PSI	WATER TEMP	OIL TEMP	AMBIENT TEMP	FRAME TEMP	
1100	478	476	477		457	458	457		378		60	1	60		175	183	63	86	
1115	478	478	478		457	457	456		378		60	1	60		180	193	63	98	
1130	478	478	478		457	457	456		378		60	1	60		180	193	66	104	
1145	478	478	478		457	457	456		378		60	1	60		185	192	62	98	
1200	478	478	478		457	457	456		378		60	1	60		185	192	62	97	
1330	478	478	478		457	458	456		379		60	1	60		170	192	70	88	
1345	478	478	478		457	458	456		379		60	1	60		185	205	70	96	
1400	478	478	478		457	458	456		379		60	1	60		185	203	72	100	
1415	478	478	478		457	458	456		379		60	1	60		183	215	72	90	
1430	478	478	478		457	458	456		379		60	1	60		185	217	70	92	
1445	478	478	478		457	458	456		379		60	1	60		185	219	70	83	
1500	478	478	478		457	458	456		379		60	1	60		186	214	72	80	
1515	478	478	478		457	458	456		379		60	1	55		184	213	70	91	
1530	478	478	478		457	458	456		379		60	1	55		185	211	71	93	
1545	478	478	478		457	458	456		379		60	1	55		187	213	72	103	
1600	478	478	478		457	458	456		379		60	1	55		187	213	75	105	
1615	478	478	478		457	458	456		379		60	1	55		187	211	72	101	
1630	478	478	478		457	458	456		379		60	1	55		187	213	74	102	

TEST INSTRUMENTS	MAKE	MODEL	CALIBRATION DATE	ACCURACY	MAXIMUM KILOWATT LOAD
FREQUENCY METER					MAXIMUM KILOWATT PICK-UP
VOLTMETER					
AMMETER					COMMENTS:

G12

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11300 Inland Ave., Mira Loma, CA 91752 (951) 681-9283
1520 S. Bon View Ave., Ontario, CA 91761 (909) 969-9345
5725 Eastgate Drive, San Diego, CA 92121 (858) 587-8524
1111 NW 45th Street, Seattle, WA 98107 (206) 789-0723
855 Stillwater Road, West Sacramento, CA 95691 (916) 372-9078

Equipment Inspection Sheet

Customer	Address	R.O. No.	Date
SAN JOSE WATER	19700 COX AVE, SARATOGA, CA	56663	10-14-20
Engine Manufacturer	**Generator Manufacturer**	**Equipment Manufacturer**	**Unit No.**
DETROIT		KATOLIGHT	G12
Engine Model	**Generator Model No.**	**Equipment Model No.**	**Hours/Miles**
12VA-87498A		D500FRXX	401.1/405.2
Engine Serial No.	**Generator Serial No.**	**Equipment Serial No.**	
7123-7406		ZN4091625 S-40663	
Engine Spec No.	**Generator Spec No.**		

[OK] Satisfactory [X] Needs Attention [N/A] Not Applicable

Obtain Authorization & Access	OK
Check Oil Level	OK
Check Operation of Block Heaters	OK
Block Heater Info:	
Antifreeze Protection	N/A
Corrosion Inhibitor Protection	N/A
Check Radiator/Expansion Tank Cap	OK
Instruments (Under load if possible)	OK
Oil Pressure	52 PSI
Water Temperature	175 °F
Fuel Pressure	PSI
DC Charge Rate 27.2 VDC	N/A Amps
Check/Correct Minor Oil Leaks	OK
Check/Correct Minor Water Leaks	OK
Check/Correct Minor Fuel Leaks	OK
Check Governor Response	X
Draw Hot Oil Sample	N/A
Turbocharger Rotation/End Play	OK
Lubricate Governor Linkage	OK
Check Hoses (Brittle, Cracks, Weak)	OK
Check/Tighten Hose Clamps as necessary	OK
Inspect Radiator Fins for Debris	OK
Lubricate Fan Drive Assembly	N/A
Check/Adjust Belts as Required	OK
Check for Water in Day Tank	OK
Check Operation of Day Tank	OK
Inspect Air Filter(s)	X
Check Vibration Isolation Equipment	OK
Check for Air Restrictions	OK
Check Exhaust System	OK
Fuel Level	20 %

Safety Systems

High Water Temperature	N/A
Low Oil Pressure	N/A
Over Crank	N/A
Over Speed	N/A

Generators

Rated 500 kW 625 KVA 277/480 Volts 752 Amp
No Load Actual 478 Voltage 60 Hz

Transfer Test

(If authorized on site)
Volts _____ _____ _____ Amps _____ _____ _____
Frequency under load _____ Hz

Check Exciter/Regulator Connections	
Check Brushes and Slip Rings	
Lube Generator Bearings as Required	
Check ATS for Cleanliness	

Generator Breaker

Found CLOSED Left CLOSED

Control Panel

Found AUTO Left AUTO

Charger Output and Battery Condition

Battery Qty 2 Type 8D
#1 DC Charger 24.7 Volts _____ Amps
#2 DC Charger _____ Volts _____ Amps
Battery Load Test & Comments

Inspect/Clean/Tighten Lugs & Cables	OK
Fill Low Cells with Water	OK

Materials Used

Lube Oil Type SAE 40 10GAL qts

Oil Analysis	Qty		P/N
Cool Analysis	Qty		P/N
Fuel Filter	Qty	1	P/N
Fuel Filter	Qty	1	P/N
Oil Filter	Qty	2	P/N
	Qty		P/N
	Qty		P/N

Comments/Recommendation by Technician:

AIR FILTERS ARE VERY DIRTY AND NEED TO BE REPLACED

Technician's Signature

Customer's Signature

1

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G12 Load Test

Customer SAN JOSE WATER	**Address** 19700 COX AVE, SARATOGA, CA	**R.O. No.** 56663	**Date** 10-14-20	**KW/KVA Rating**
Engine Manufacturer	**Generator Manufacturer**	**Equipment Manufacturer** KATOLIGHT	**Unit No.** G12	**Volts:**
Engine Model 12VA-8749BA	**Generator Model No.**	**Equipment Model No.** D500FRXX	**Hours/Miles** 401.1/405.2	**Phase:**
Engine Serial No. 7123-7406	**Generator Serial No.**	**Equipment Serial No.** ZN4091625 S-40663		**Tested By:**
Engine Spec No.	**Generator Spec No.**	**Witnessed By:**		**Date:**

	VOLTAGE				AMPS														
TIME	L1	L2	L3	AVG	L1	L2	L3	%LOAD	KW	KVA	Hz	PF	OIL PSI	FUEL PSI	WATER TEMP	OIL TEMP	AMBIENT TEMP	FRAME TEMP	
0915	478	477	477		308	308	306		254		60	1.0	55		155		66		
0930	478	476	477		307	307	305		253		60	1.0	55		160		66		
0945	478	478	478		307	307	305		243		60	1.0	55		160		64		
1000	477	477	477		518	518	516		428		60	1.0	50		170		64		
1030	477	477	476		516	517	515		427		60	1.0	52		170		70		
1100	476	477	477		517	517	515		427		60	1.0	52		175		73		
1130	477	477	477		517	517	514		426		60	1.0	52		175		79		
1200	477	477	477		517	517	515		426		60	1.0	52		175		81		
1230	477	477	477		517	517	515		427		60	1.0	52		175		82		
1300	477	477	477		516	516	514		425		60	1.0	52		175		84		
1315	477	477	477		516	516	514		426		60	1.0	52		175		85		

TEST INSTRUMENTS	MAKE	MODEL	CALIBRATION DATE	ACCURACY
FREQUENCY METER				
VOLTMETER				
AMMETER				

MAXIMUM KILOWATT LOAD
MAXIMUM KILOWATT PICK-UP
COMMENTS:

G10

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5725 Eastgate Drive, San Diego, CA 92121 (858) 587-8524
1111 NW 45th Street, Seattle, WA98107 (206) 789-0723
855 Stillwater Road, West Sacramento, CA 95691 (916) 372-5078

Equipment Inspection Sheet

Customer	Address	R.O. No.	Date
SJW	1265 S BASCOM AVE, SAN JOSE	K 56720	11/23/20
Engine Manufacturer	**Generator Manufacturer**	**Equipment Manufacturer**	**Unit No.**
DETROIT DIESEL		KATOLIGHT	G10
Engine Model	**Generator Model No.**	**Equipment Model No.**	**Hours/Miles**
6067405		D275FXX4	2686/2690.2
Engine Serial No.	**Generator Serial No.**	**Equipment Serial No.**	
06VF205907		AD209531SRM S-40661	
Engine Spec No.	**Generator Spec No.**		

[OK] Satisfactory [X] Needs Attention [N/A] Not Applicable

Obtain Authorization & Access	OK
Check Oil Level	OK
Check Operation of Block Heaters	OK
Block Heater Info: NA	
Antifreeze Protection	NA
Corrosion Inhibitor Protection	NA
Check Radiator/Expansion Tank Cap	OK
Instruments (Under load if possible)	OK
Oil Pressure	55 PSI
Water Temperature	160 °F
Fuel Pressure	NA PSI
DC Charge Rate 27.56 VDC	NA Amps
Check/Correct Minor Oil Leaks	OK
Check/Correct Minor Water Leaks	OK
Check/Correct Minor Fuel Leaks	OK
Check Governor Response	OK
Draw Hot Oil Sample	NA
Turbocharger Rotation/End Play	OK
Lubricate Governor Linkage	OK
Check Hoses (Brittle, Cracks, Weak)	OK
Check/Tighten Hose Clamps as necessary	OK
Inspect Radiator Fins for Debris	OK
Lubricate Fan Drive Assembly	OK
Check/Adjust Belts as Required	OK
Check for Water in Day Tank	NA
Check Operation of Day Tank	NA
Inspect Air Filter(s)	OK
Check Vibration Isolation Equipment	OK
Check for Air Restrictions	OK
Check Exhaust System	OK
Fuel Level	75 %

Safety Systems

High Water Temperature	OK
Low Oil Pressure	OK
Over Crank	OK
Over Speed	OK

Generators

Rated 275 kW 343.75 KVA 277/480 Volts 413 Amp
No Load Actual 480 Voltage 60 Hz

Transfer Test

(if authorized on site)
Volts NA NA NA Amps NA NA NA
Frequency under load NA Hz

Check Exciter/Regulator Connections	OK
Check Brushes and Slip Rings	OK
Lube Generator Bearings as Required	NA
Check ATS for Cleanliness	NA

Generator Breaker

Found ON Left ON

Control Panel

Found OFF Left OFF

Charger Output and Battery Condition

Battery Qty 2 Type 4D-XHD
#1 DC Charger 13.91 Volts 1000 CCA Amps
#2 DC Charger 13.94 Volts 1000 CCA Amps
Battery Load Test & Comments

Inspect/Clean/Tighten Lugs & Cables	OK
Fill Low Cells with Water	OK

Materials Used

Lube Oil Type _____ _____ qts

Oil Analysis	Qty		P/N	
Cool Analysis	Qty		P/N	
Fuel Filter	Qty		P/N	
Fuel Filter	Qty		P/N	
Oil Filter	Qty		P/N	
	Qty		P/N	
	Qty		P/N	

Comments/Recommendation by Technician:

Technician's Signature

Customer's Signature

1

Valley
POWER SERVICES, INC.
A Valley Power Systems Company

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855 Stillwater Road, West Sacramento, CA 95691 (916) 372-5078

G10 Load Test

Customer SJW	**Address** 1265 S BASCOM AVE, SAN JOSE	**R.O. No.** K 56720	**Date** 11/23/20
Engine Manufacturer	**Generator Manufacturer**	**Equipment Manufacturer** KATOLIGHT	**Unit No.** G10
Engine Model 8067405	**Generator Model No.**	**Equipment Model No.** D275FXX4	**Hours/Miles** 2686/2690.2
Engine Serial No. 06VF205907	**Generator Serial No.**	**Equipment Serial No.** AD209531SRM S-40661	
Engine Spec No.	**Generator Spec No.**	**Witnessed By:**	

KW/KVA Rating
Volts:
Phase:
Tested By:
Date:

	VOLTAGE				AMPS														
TIME	L1	L2	L3	AVG	L1	L2	L3	%LOAD	KW	KVA	Hz	PF	OIL PSI	FUEL PSI	WATER TEMP	OIL TEMP	AMBIENT TEMP	FRAME TEMP	BATT. VOLTS
1115	485.8	486.0	485.9		171.2	171.0	171.4		144.4	144.4	60	1	60	NA	145	186	55	71	27.55
1130	485.9	486.1	486.0		171.2	171.0	171.3		144.4	144.4	60	1	55	NA	160	201	55	80	27.55
1145	485.9	486.1	486.0		171.2	171.0	171.4		144.4	144.4	60	1	55	NA	160	200	57	81	27.56
1200	486.0	486.2	486.1		171.2	171.0	171.4		144.4	144.4	60	1	55	NA	160	203	58	84	27.56
1215	486.0	486.2	486.1		171.2	171.0	171.4		144.4	144.4	60	1	55	NA	160	202	58	83	27.56
1230	486.1	486.3	486.2		171.2	171.0	171.4		144.4	144.4	60	1	53	NA	170	202	58	85	27.56
1245	485.2	485.5	485.4		249.7	249.4	250.1		210.2	210.2	60	1	53	NA	175	216	59	89	27.56
1300	485.4	484.5	485.4		249.6	249.6	250.1		210.4	210.4	60	1	51	NA	175	219	59	95	27.56
1315	485.2	485.5	485.4		249.7	249.5	250.0		210.3	210.3	60	1	51	NA	175	221	60	97	27.56
1330	485.3	485.6	485.4		249.7	249.4	250.1		210.3	210.3	60	1	51	NA	175	220	60	100	27.56
1345	485.3	485.6	485.4		249.7	249.5	250.1		210.6	210.6	60	1	51	NA	178	221	60	99	27.56
1400	485.4	485.5	485.6		249.7	249.5	250.1		210.6	210.6	60	1	51	NA	178	219	60	101	27.56
1415	485.4	485.6	485.4		249.8	249.4	250.1		210.7	210.7	60	1	51	NA	178	221	62	100	27.56
1430	485.4	485.6	485.5		249.8	249.4	250.1		210.4	210.4	60	1	51	NA	178	223	62	99	27.56
1445	485.4	485.6	485.5		249.8	249.5	250.1		210.6	210.6	60	1	51	NA	178	220	62	97	27.56
1500	485.4	485.6	485.5		249.8	249.5	250.1		210.6	210.6	60	1	51	NA	178	220	62	96	27.56
1515	485.4	485.6	485.5		249.8	249.5	250.1		210.7	210.7	60	1	51	NA	178	220	61	97	27.56

TEST INSTRUMENTS	MAKE	MODEL	CALIBRATION DATE	ACCURACY
FREQUENCY METER				
VOLTMETER				
AMMETER				

MAXIMUM KILOWATT LOAD
MAXIMUM KILOWATT PICK-UP
COMMENTS:

G11

Valley
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A Valley Power Systems Company

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Equipment Inspection Sheet

Customer	Address	R.O. No.	Date
SJW	2268 WILL WOOL DR, SAN JOSE CA.	K56725	11/10/20
Engine Manufacturer	**Generator Manufacturer**	**Equipment Manufacturer**	**Unit No.**
DETROIT DIESEL		KATOLIGHT	G11
Engine Model	**Generator Model No.**	**Equipment Model No.**	**Hours/Miles**
		D275FXX4	2041HRS
Engine Serial No.	**Generator Serial No.**	**Equipment Serial No.**	
		L4215439	
Engine Spec No.	**Generator Spec No.**		

[OK] Satisfactory [X] Needs Attention [N/A] Not Applicable

Obtain Authorization & Access	OK
Check Oil Level	OK
Check Operation of Block Heaters	OK
Block Heater Info:	
Antifreeze Protection	OK
Corrosion Inhibitor Protection	OK
Check Radiator/Expansion Tank Cap	OK
Instruments (Under load if possible)	OK
Oil Pressure	55 PSI
Water Temperature	190 °F
Fuel Pressure	PSI
DC Charge Rate ____VDC	Amps
Check/Correct Minor Oil Leaks	OK
Check/Correct Minor Water Leaks	OK
Check/Correct Minor Fuel Leaks	OK
Check Governor Response	OK
Draw Hot Oil Sample	NA
Turbocharger Rotation/End Play	OK
Lubricate Governor Linkage	OK
Check Hoses (Brittle, Cracks, Weak)	OK
Check/Tighten Hose Clamps as necessary	OK
Inspect Radiator Fins for Debris	OK
Lubricate Fan Drive Assembly	OK
Check/Adjust Belts as Required	OK
Check for Water in Day Tank	OK
Check Operation of Day Tank	OK
Inspect Air Filter(s)	OK
Check Vibration Isolation Equipment	OK
Check for Air Restrictions	OK
Check Exhaust System	OK
Fuel Level	75 %

Safety Systems

High Water Temperature	
Low Oil Pressure	
Over Crank	
Over Speed	

Generators

Rated 275 kW 312 KVA 480 Volts 413 Amp
No Load Actual 480 Voltage 60 Hz

Transfer Test
(if authorized on site)
Volts _____ Amps _____
Frequency under load _____Hz

Check Exciter/Regulator Connections	
Check Brushes and Slip Rings	
Lube Generator Bearings as Required	
Check ATS for Cleanliness	

Generator Breaker
Found SHUT Left SHUT
Control Panel
Found AUTO Left AUTO

Charger Output and Battery Condition
Battery Qty 1 Type 4D
#1 DC Charger _____Volts _____ Amps
#2 DC Charger _____Volts _____ Amps
Battery Load Test & Comments

Inspect/Clean/Tighten Lugs & Cables	OK
Fill Low Cells with Water	OK

Materials Used
Lube Oil Type _____ _____ qts

Oil Analysis	Qty		P/N	
Cool Analysis	Qty		P/N	
Fuel Filter	Qty		P/N	
Fuel Filter	Qty		P/N	
Oil Filter	Qty		P/N	
	Qty		P/N	
	Qty		P/N	

Comments/Recommendation by Technician:

Technician's Signature

Customer's Signature

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G11

Load Test

Customer: SJW	Address: 2268 WILL WOOL DR, SAN JOSE CA.	R.O. No.: K56725	Date: 11/10/20	KW/KVA Rating:
Engine Manufacturer:	Generator Manufacturer:	Equipment Manufacturer: KATOLIGHT	Unit No.: G11	Volts:
Engine Model:	Generator Model No.:	Equipment Model No.: D275FXX4	Hours/Miles: 2041HRS	Phase:
Engine Serial No.:	Generator Serial No.:	Equipment Serial No.: L4215439		Tested By:
Engine Spec No.:	Generator Spec No.:	Witnessed By:		Date:

	VOLTAGE				AMPS														
TIME	L1	L2	L3	AVG	L1	L2	L3	%LOAD	KW	KVA	Hz	PF	OIL PSI	FUEL PSI	WATER TEMP	OIL TEMP	AMBIENT TEMP	FRAME TEMP	
1045	485	485	485		165	165	165		139		60	1	60		160		55		
1100	485	485	485		165	165	165		139		60	1	60		160		56		
1115	485	485	485		165	165	165		139		60	1	60		160		56		
1130	485	485	485		165	165	165		139		60	1	60		160		57		
1145	485	485	485		165	165	165		139		60	1	60		160		57		
1200	485	485	485		165	165	165		139		60	1	60		160		58		
1215	485	485	485		165	165	165		139		60	1	60		160		58		
1230	485	485	485		165	165	165		139		60	1	60		160		59		
1245	485	485	485		165	165	165		139		60	1	60		160		59		
1300	485	485	485		250	250	250		210		60	1	50		175		60		
1315	485	485	485		250	250	250		210		60	1	50		175		60		
1330	485	485	485		250	250	250		210		60	1	50		175		61		
1345	485	485	485		250	250	250		210		60	1	50		175		61		
1400	485	485	485		250	250	250		210		60	1	50		175		62		
1415	485	485	485		250	250	250		210		60	1	50		175		62		
1430	485	485	485		250	250	250		210		60	1	50		175		63		
1445	485	485	485		250	250	250		210		60	1	50		175		63		

TEST INSTRUMENTS	MAKE	MODEL	CALIBRATION DATE	ACCURACY	MAXIMUM KILOWATT LOAD
FREQUENCY METER					MAXIMUM KILOWATT PICK-UP
VOLTMETER					
AMMETER					COMMENTS:

G42

Valley
POWER SERVICES, INC.
A Valley Power Systems Company

4000 Rosedale Highway, Bakersfield, CA 93308 (661) 325-9001
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Equipment Inspection Sheet

Customer	Address	R.O. No.	Date
SAN JOSE WATER	OLD SANTA CRUZ HWY	K56724	9/30/20
Engine Manufacturer	**Generator Manufacturer**	**Equipment Manufacturer**	**Unit No.**
JOHN DEERE		DOOSAN	G42
Engine Model	**Generator Model No.**	**Equipment Model No.**	**Hours/Miles**
LSA.44.2S7		4045HF485	285
Engine Serial No.	**Generator Serial No.**	**Equipment Serial No.**	
		PE4045L205165	
Engine Spec No.	**Generator Spec No.**		

[OK] Satisfactory [X] Needs Attention [N/A] Not Applicable

Obtain Authorization & Access	OK
Check Oil Level	OK
Check Operation of Block Heaters	OK
Block Heater Info:	
Antifreeze Protection	OK
Corrosion Inhibitor Protection	OK
Check Radiator/Expansion Tank Cap	OK
Instruments (Under load if possible)	OK
Oil Pressure	49 PSI
Water Temperature	176 °F
Fuel Pressure	N/A PSI
DC Charge Rate _____VDC	_____ Amps
Check/Correct Minor Oil Leaks	OK
Check/Correct Minor Water Leaks	OK
Check/Correct Minor Fuel Leaks	OK
Check Governor Response	OK
Draw Hot Oil Sample	OK
Turbocharger Rotation/End Play	OK
Lubricate Governor Linkage	OK
Check Hoses (Brittle, Cracks, Weak)	OK
Check/Tighten Hose Clamps as necessary	OK
Inspect Radiator Fins for Debris	OK
Lubricate Fan Drive Assembly	OK
Check/Adjust Belts as Required	OK
Check for Water in Day Tank	OK
Check Operation of Day Tank	OK
Inspect Air Filter(s)	OK
Check Vibration Isolation Equipment	OK
Check for Air Restrictions	OK
Check Exhaust System	OK
Fuel Level	_____%

Safety Systems

High Water Temperature	OK
Low Oil Pressure	OK
Over Crank	OK
Over Speed	OK
_____	_____
_____	_____
_____	_____

Generators

Rated 135 kW _____KVA 480 Volts _____Amp
No Load Actual _____Voltage _____Hz

Transfer Test
(if authorized on site)
Volts _____ _____ _____ Amps _____ _____ _____
Frequency under load _____Hz

Check Exciter/Regulator Connections	_____
Check Brushes and Slip Rings	_____
Lube Generator Bearings as Required	_____
Check ATS for Cleanliness	_____

Generator Breaker
Found _____ Left _____
Control Panel
Found _____ Left _____

Charger Output and Battery Condition
Battery Qty _____ Type _____
#1 DC Charger _____Volts _____ Amps
#2 DC Charger _____Volts _____ Amps
Battery Load Test & Comments

Inspect/Clean/Tighten Lugs & Cables	_____
Fill Low Cells with Water	_____

Materials Used
Lube Oil Type _____ _____ qts

Oil Analysis	Qty _____	P/N _____
Cool Analysis	Qty _____	P/N _____
Fuel Filter	Qty _____	P/N _____
Fuel Filter	Qty _____	P/N _____
Oil Filter	Qty _____	P/N _____
_____	Qty _____	P/N _____
_____	Qty _____	P/N _____

Comments/Recommendation by Technician:

Robert Preston
Technician's Signature

Customer Unavailable
Customer's Signature

1

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G42 Load Test

Customer: SAN JOSE WATER	Address: OLD SANTA CRUZ HWY	R.O. No.: K56724	Date: 9/30/20	KW/KVA Rating:
Engine Manufacturer:	Generator Manufacturer:	Equipment Manufacturer: DOOSAN	Unit No.: G42	Volts:
Engine Model: LSA.44.2S7	Generator Model No.:	Equipment Model No.: 4045HF485	Hours/Miles: 285	Phase:
Engine Serial No.:	Genesator Serial No.:	Equipment Serial No.: PE4045L205165		Tested By:
Engine Spec No.:	Genesator Spec No.:	Witnessed By:		Date:

	VOLTAGE				AMPS														
TIME	L1	L2	L3	AVG	L1	L2	L3	%LOAD	KW	KVA	Hz	PF	OIL PSI	FUEL PSI	WATER TEMP	OIL TEMP	AMBIENT TEMP	FRAME TEMP	DC VOLTS
10:00	480	480	480		30	30	30		25		60	.1	55	N/A	160	140	65	70	14
10:15	480	480	480		30	30	30		25		60	.1	55	N/A	160	140	65	70	14
10:30	480	480	480		30	30	30		25		60	.1	55	N/A	160	140	65	70	14
10:45	480	480	480		30	30	30		25		60	.1	55	N/A	160	140	65	70	14
11:00	480	480	480		61	61	61		51		60	.1	49	N/A	174	180	65	70	14
11:15	480	480	480		61	61	61		51		60	.1	49	N/A	174	180	65	70	14
11:30	480	480	480		61	61	61		51		60	.1	49	N/A	174	180	65	70	14
11:45	480	480	480		61	61	61		51		60	.1	49	N/A	174	180	65	70	14
12:00	480	480	480		107	107	107		91		60	.1	49	N/A	174	180	65	70	14
12;15	480	480	480		107	107	107		91		60	.1	49	N/A	174	180	65	70	14
12:30	480	480	480		107	107	107		91		60	.1	49	N/A	174	180	65	70	14
12:45	480	480	480		107	107	107		91		60	.1	49	N/A	174	180	65	70	14
1:00	480	480	480		107	107	107		91		60	.1	49	N/A	174	180	65	70	14
1:15	480	480	480		107	107	107		91		60	.1	49	N/A	174	180	65	70	14
1:30	480	480	480		107	107	107		91		60	.1	49	N/A	174	180	65	70	14
1:45	480	480	480		107	107	107		91		60	.1	49	N/A	174	180	65	70	14
2:00	480	480	480		107	107	107		91		60	.1	49	N/A	174	180	65	70	14

TEST INSTRUMENTS	MAKE	MODEL	CALIBRATION DATE	ACCURACY
FREQUENCY METER				
VOLTMETER				
AMMETER				

MAXIMUM KILOWATT LOAD

MAXIMUM KILOWATT PICK-UP

COMMENTS:

ATTACHMENT 1-4: SJWC RESPONSE TO DR NM-008

SAN JOSE WATER
110 W. Taylor Street
San Jose, CA 95110-2131

March 25, 2021

Ting-Pong Yuen
Public Advocates Office
California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102

Re: Response to Data Request NM-08
General Rate Case Application 21-01-003

Dear Mr. Yuen:

Enclosed you will find San Jose Water Company's (SJWC) response to data request NM-08 dated March 15, 2021. The information was prepared by:

Jake Walsh, P.E.
Assistant Chief Engineer
408-279-7850
jake.walsh@sjwater.com

Due to the current shelter-in-place order, SJWC will only provide responses electronically. Hard copies will not be provided.

If you have any questions, please contact me.

Very truly yours,

John B. Tang, P.E.
Vice President of Regulatory Affairs
& Government Relations

cc: Niamh Murphy, Public Advocates Office
Mukunda Dawdi, Public Advocates Office
Angela Wuerth, Public Advocates Office

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RESPONSES

1. Refer to Index# 5313 – Guadalupe Mines Station Improvements.
    a. Have you finished the design phase of this project?

        SJWC Response: The design is about 70% complete.

    b. Have you acquired any permits for this project? Please describe them.

        SJWC Response: No permits have been obtained.

    c. This project was included in the previous GRC. Why did the budget increase? Please describe any changes to the project.

        SJWC Response: The project budget for the current GRC reflects recent cost data, anticipated escalation, charges to the project work order, increases in contingencies and SJW overhead. Unlike the project budget for the previous GRC, the project budget for the current GRC includes mark-ups for mobilization and insurance and bonds. The scope of work was updated to include an expansion of the station footprint which will require earthwork and a retaining wall; a shelter for the motor control center (MCC); fencing; and additional paving.

    d. Why didn't construction for the station's improvements occur in 2020 as planned in the previous GRC?

        SJWC Response: See response to Question #3.

2. Refer to Index# 5222 – Canyon Creek Station Improvements.
    a. Have you finished the design phase of this project?

        SJWC Response: The design is about 95% complete.

    b. Have you acquired any permits for this project? Please describe them.

        SJWC Response: City of San Jose Planning approval has been obtained through a Planned Development Permit Amendment, file no. PDA80-054-34. SJWC has submitted to City of San Jose Public Works department for a 1st review of a Grading Permit, and are currently working on responding to their initial comments.

    c. This project was included in the previous GRC. Why did the budget increase? Please describe any changes to the project.

        SJWC Response: The project budget for the current GRC reflects recent cost data, anticipated escalation, charges to the project work order, and increases in contingencies and SJW overhead. Unlike the project budget for the previous GRC, the project budget for the current GRC includes mark-ups for mobilization and insurance and bonds and the cost of renting a portable pump.

    d. Why didn't construction for the station's improvements occur in 2019 as planned in the previous GRC?

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SJWC Response: See response to Question #3

3. The partial settlement agreement of D. 18-11-025 reduced SJWC's capital spending forecast from $403,217,363 to $319,398,454. Identify any projects that you were not able to complete because of this reduction.

   SJWC Response: SJWC capital improvement projects submitted for a GRC are typically scoped at the planning level. At the SJWC planning level, key infrastructure have been identified for installation and retirement; site conditions have not been completely assessed. Cost estimates at the SJWC planning level are typically based on SJWC historical data and non-binding budgetary estimates provided by third-parties. Accordingly, actual costs can vary from estimates provided in the GRC due to changes in the scope of work, unforeseen site conditions, and discrepancies between budgetary estimates and bids provided by third-parties. Moreover, escalation projections prepared by SJWC can vary from actual escalation rates.

   SJWC continuously tracks cumulative expenditures on its capital improvement program. SJWC may adjust the schedule of a capital improvement project or defer the project to a future budget year in an attempt to align total capital improvement program expenditures in a given budget year with the amount authorized in the GRC. In other words, the exceedance of the budget for a capital improvement project may result in the deferral of a different capital improvement project. Alternatively, a project(s) may be completed under budget in which case the funds are used fund the exceedances on other projects or to fund a new project depending on the water system's needs and budgetary constraints.

   As a result of budget constraints or changes, certain projects from SJWC's 2018-2020 GRC application had to be deferred or cancelled, with funds reallocated to other projects. Some projects were also deferred or cancelled due to non-budgetary considerations, such as street paving conflicts, requests from jurisdictions for facility relocations and installations, ability to secure easements and property purchases, changing needs and priorities, dependency on third parties for project execution, and unforeseen unbudgeted items. Please see Attachment 1 for a list of projects from the 2018-2020 GRC application that were impacted by these budget limitations and other considerations.

4. What is the process for determining the size of permanent generator to install at a facility? Is the size of the permanent generators installed on sites chosen with the assumption that all pieces of equipment will be running at the same time?

   SJWC Response: Generators are designed to ensure that the Operations department has the ability to move water from the facility in case of a natural disaster or a major power outage while maintaining the minimum water pressure of 20 pounds per square inch (psi) at all customer services according to the California Water Works Standards (Title 22, Section 64602a). The permanent generators are not designed to back up the entire load at a particular station rather a portion of load (critical load) required to maintain a reliable water supply to meet customer demands.

5. Are facilities that have multiples of equipment (ie, 5 pumps, 3 boosters, etc) ever run with only one or two pieces of equipment powered at any given time? How common is this occurrence?

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SJWC Response: Yes, it is common for SJW to only power a few pieces of equipment at a given time at a facility, depending on the system demands. For the majority of the facilities, the station's electrical design is such that the generator capacity is less than required to power the whole station. While on generator power, these facilities may only be capable of powering a certain quantity of equipment at the site.

6. Where is the generator receptacle at Perie Lane housed?

   SJWC Response: The generator receptacle at Perie Lane is housed with the electrical cabinet.

7. For the following generators, please provide receipts of the quotes provided for the total cost of replacement.

Generator
G31 - Vickery
G06 - Buena Vista
G28 - 12th Station
G12 - Cox Station
G10 - Three Mile
G11 - Will Wool #11
G42 - Locust #42

   SJWC Response: Please see Attachment 2 for vendor cost quotes from Supply Patriot for the replacement generators. Note that these quotes do not include other material costs such as conduit, cables, and concrete pads, or contract, company labor, permitting, and contingency costs. The vendor quotes for the Buena Vista permanent generator and the 12th Street permanent generator are the same as the new generators will be the same size. The Three Mile portable generator (G10) and the Will Wool portable generator (G11) vendor quotes are also the same.

8. Do you have the capability of running generators in parallel at your facilities? Please list any facilities where you can do this.

   SJWC Response: Facilities that have the capability of running generators in parallel include Breeding, Cambrian, Will Wool, Gish, and Needles stations.

9. Has SJWC ever applied for the Self-Generation Incentive Program (SGIP)? Are there any plans to do so?

   SJWC Response: Yes, SJWC applied for the Self-Generation Incentive Program (SGIP) in connection with a pressure reduction turbine at Cox Station. SJWC does not have any current plans to pursue and install qualifying distributed energy systems and apply for incentives through the SGIP.

END OF RESPONSE

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ATTACHMENT 1-5: SJWC RESPONSE TO DR NM-006

SAN JOSE WATER
110 W. Taylor Street
San Jose, CA 95110-2131

March 1, 2021

Ting-Pong Yuen
Public Advocates Office
California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102

Re: Response to Data Request NM-06
General Rate Case Application 21-01-003

Dear Mr. Yuen:

Enclosed you will find San Jose Water Company's (SJWC) response to data request NM-006 dated February 19, 2021. The information was prepared by:

Ann Lindahl
Regulatory Affairs Manager
408-642-0359
ann.lindahl@sjwater.com

Due to the current shelter-in-place order, SJWC will only provide responses electronically. Hard copies will not be provided.

If you have any questions, please contact me.

Very truly yours,

John B. Tang, P.E.
Vice President of Regulatory Affairs
& Government Relations

cc: Niamh Murphy, Public Advocates Office
Munkuda Dawadi, Public Advocates Office
Angela Wuerth, Public Advocates Office

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RESPONSES

1. Refer to the document "WRAM Tracking", tab "WRAM detail".
   a. For each month, there are multiple entries of tiered rates, some of which correspond to re-billed accounts. For such entries, did you correspondingly reduce the original billed amount from the original months? Provide evidence of such adjustments.
   SJWC Response: The original billed amounts from the original months were not reduced. The entries represent the quantity amounts billed in the current period represented. A request is pending with SJWC's Billing Department to provide examples of the entries in July 2020. Those examples will be forwarded when provided.
   b. Within each monthly breakdown, is there a way to distinguish between re-billed entries and entries where multiple tiered rates are being charged based on pro-rated bills? If so, describe how re-billed entries and entries where multiple tiered rates are being charged based on pro-rated bills can be distinguished.
   SJWC Response: Proration of bills during bill changes can be expected to appear in the usually 60 day window following an authorized rate change. The appearance of other tiered rate usage outside of that billing proration window indicates re-billing activity.
   c. From 2017 to 2020, what was the longest lag between the date a tariff went into effect and the date the last pro-rated share of the previous tariff was billed? Exclude re-bills from this calculation.
   SJWC Response: The average lag between the date a tariff becomes effective and the last pro-rated affected bills is usually 60 days. This lag can be extended as the result of other billing events excluding re-bills such as estimated bills.

2. Provide a detailed accounting document that tracks changes in accounts (similar to the "WRAM Tracking" document) for the following Balancing and Memo Accounts. For each account, provide invoices, account balance, credits and charges applied monthly. For the Pension Account, provide data for each year from 2015-2020. For the other accounts, provide data for each year from the time they were opened until the present.
   a. Pension Account
   SJWC Response: Please see the attached folder. Please note that at this time only 2018 and 2020 information was provided. Additional time is need to obtain the copies of the support from files located in San Jose Water Company's office. The additional information will be provided by March 5, 2021 when access to the office is provided to the responder.
   b. 2018 Cost of Capital Memorandum Accounts
   SJWC Response: Please see the attached folder
   c. CEMA – 2017 Flooding Account
   SJWC Response: Please see the attached folder
   d. CEMA PSPS 1
   SJWC Response: Please see the attached folder
   e. CEMA PSPS 2
   SJWC Response: Please see the attached folder
3. Refer to the Chapter 17 of Exhibit E RO Report for the following questions:
   a. On pages 17-1 and 17-2, SJWC requests to recover memo and balancing accounts balances. Does SJWC's recovery request of balancing and memorandum accounts balances in the application consist of COVID-19 costs tracked in the CEMA account?
   SJWC Response: No, SJWC's request for recovery of balancing and memorandum accounts in this application do not include the CEMA COVID-19 account.
   b. How is SJWC tracking COVID-19 related costs in the CEMA account?
   SJWC Response: SJWC is tracking separately in the CEMA costs related for SJWC's COVID-19 response. Accounting has assigned a subledger account code of 1COVID to assist the coding of expenses for this purpose.
   c. What specific costs are SJWC tracking related to COVID-19 in the CEMA account?

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SJWC Response: SJWC is tracking costs related to SJWC's COVID-19 response including but not limited to overtime, purchased services, outside contracting, and 90+ day arrearages greater than the authorized bad debt amount.

END OF RESPONSE

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ATTACHMENT 1-6: SJWC RESPONSE TO DR NM-009

SAN JOSE WATER
110 W. Taylor Street
San Jose, CA 95110-2131

March 25, 2021

Ting-Pong Yuen
Public Advocates Office
California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102

Re: Response to Data Request NM-09
General Rate Case Application 21-01-003

Dear Mr. Yuen:

Enclosed you will find San Jose Water Company's (SJWC) response to data request NM-09 dated March 15, 2021. The information was prepared by:

Ann Lindahl
Manger of Regulatory Affairs
ann.lindahl@sjwater.com
408-642-0359

Due to the current shelter-in-place order, SJWC will only provide responses electronically. Hard copies will not be provided.

If you have any questions, please contact me.

Very truly yours,

John B. Tang, P.E.
Vice President of Regulatory Affairs
& Government Relations

cc: Niamh Murphy, Public Advocates Office
Mukunda Dawdi, Public Advocates Office
Angela Wuerth, Public Advocates Office

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RESPONSES

1. Refer to CH 17, tab "Drink Water Fees II".
    a. Is this account authorized by AL 497? If not, please provide the authorizing advice letter.
    SJWC Response: The Drinking Water Fees Expense Memorandum Account (DWFMA) was authorized by Advice Letter 497 to track increased public water systems annual fees as charged to SJWC by the State Water Resources Control Board (State Board).
    b. Why is this account being amortized in this GRC instead of the previous GRC?
    SJWC Response: SJWC's GRC Decision (D.16-06-004) authorized $54,900 for drinking water fees in Test Year 2016. SJWC had estimated annual drinking water fees would increase to $316,000 for SJWC under the new the State Boards new calculation methodology. This increase of fees was substantial in nature and will not be offset by any cost decreases. The fee increase, effective for June 2016 to June 2017 was recognized in the Memorandum Account Recovery Request in the prior GRC. The fee increase for June 2017 to June 2018 was invoiced on 12/26/2017 and reviewd by SJWC on January 2, 2018 after the 2018 GRC was prepared.
    c. Refer to cell C29. Why are the recorded amounts being adjusted by dividing by 12, then multiplying by 6? Why are other recorded amounts not treated the same way?
    SJWC Reponse: State Board fiscal year is July to June of each year. The entry of $268,889 represents to fees from July 2017 to June of 2018 of $323,788.90 less the authorized amount of $54,900 for an entire 12 months. The entry of $134,840 represent the fees from July 2018 to December of 2018 ($324,580 less the $54,000 in rates for 12 month of July 2018 to June of 2019, therefore divided by 12) and then multiplied by the last 6 months of 2018 and that GRC cycle. New rates became effective January 1, 2019 which had included the higher fees in the calculation.
    d. Where in the previous GRC decision are you able to find $54,900 as the authorized drinking water fee cost?
    SJWC Response: SJWC's GRC Decision (D.16-06-004) authorized $54,900 for drinking water fees in Test Year 2016.

2. Refer to CH 17, tab "Ground Water" and AL 496. Why is the Ground Water Legal Expenses account being amortized in this GRC instead of the previous GRC?

SJWC Response: The Ground Wate Legal Expenses Memorandum Account was not included in A.18-01-004 because at the time of the preparation of those releated requests workpapers for the draft filing (September 2017 cutoff) SJWC's Legal Department anticipated that would possibly be additional related legal expenses. Because the account was expected to continue to be active, recovery was not pursued at that time.

3. Provide an unredacted copy of the 2020 annual report to the Commission in pdf and Excel formats.

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SJWC Response: The 2020 Annual Report to the CPUC is currently being prepared. The CPUC's Water Division has granted an extenstion to May 31, 2021 for submission. An unredacted copy of the report will be provided when the report is submitted.

4. Refer to the Disaster Relief Plan.
   a. Are bills that are waived because of a declared disaster kept separate from arrearages?
      SJWC Response: Yes, waived bills would be tracked separately from arrearages in the appropriate CEMA account.
   b. If a CEMA account is opened in response to a declared emergency, are arrearages associated with that emergency tracked in that account? Where are arrearages associated with an emergency tracked?
      SJWC Response: Yes, a separate tracking would be set up to track arrearages in a CEMA account.
   c. Have you purchased any software specifically for disaster management or relief? If so, where were these costs tracked?
      SJWC Response: SJWC purchased SwiftReach mass communications software for email/text/voice notifications for emergency disaster management. The cost for that has not been tracked separately.
   d. For waived bills associated with residences that are declared uninhabitable, what criteria is SJWC using to determine habitability?
      SJWC Response: The loss of a home, business or property due to a disaster declared by the state or federal government or if a customer declares that their home is damaged and uninhabitable. Additionally, if a customer is subject to an extended evacuation order.

5. Please identify the advice letters that authorized the formation of the Intervenor Compensation Memorandum Account.
   SJWC Response: SJWC has used the memorandum account and request for recovery in the GRC process to avoid one time, small surcharges to customers at the time an authorized Invervenor payment is made. Recovery of amounts tracked have been authorized in prior GRC proceedings. There is no individual advice letter that has authorized the tracking account.

6. Describe any state or local franchise taxes that SJWC pays.
   a. How are these taxes calculated?
      SJWC Response: Franchise taxes are calculated based on the prior July fiscal year for the entity. The calculation in most cases it is based on pipe in ground in a particular city compared to total system and the capital in distribution system. These ratios are then applied to total revenue. For two of the franchise, we also calculate the franchise based on sales generated in the city/county. The higher or the two amounts is considered the required amount.
   b. Is the amount of this tax based on a percentage of revenue or a fixed amount?

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SJWC Response: See the prior response.

c. What entity collects this tax?

SJWC Response: Franchise taxes are paid to Santa Clara County, City of Monte Sereno, City of Cupertino and City of Saratoga.

END OF RESPONSE

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ATTACHMENT 1-7: SJWC RESPONSE TO DR NM-003 ATTACHMENT 2

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	A	B	C	D	E	F	G	H
1	Highlighted cell = portable generators that were moved from one affected facility to another affected facility							
2	**Station**	**PSPS Utility Outage Event (Y/N)**	**Est. Outage Date/Time**	**Est. Restoration Date/Time**	**Generator Power Used (Y/N)**	**Generator Type (Stationary/Portable)**	**Generator # Used**	**Notes**
3	Almaden Valley Station	Y	10/10 - 8:45am	10/11 - 7pm	Y	Stationary		
4	Almondwood Way Station	Y	10/10 - 8:45am	10/11 - 7pm	N			
5	Alum Rock Station	Y	10/10 - 8:30am	10/10 - 2:15pm	N			
6	Aztec Ridge Dr Reservoir	Y	10/10 - 8:45am	10/11 - 1am	N			
7	Bayview Drive Reservoir	Y	10/10 - 8:45am	10/11 - 6:30pm	N			
8	Bear Creek Rd Station	Y	10/10 - 8am	10/11 - 6pm	Y	Stationary		
9	Beatrice Cir Reservoir	Y	10/10 - 8:45am	10/11 - 6:30pm	N			
10	Beckwith Road Reservoir	N						
11	Cahalan Reservoir	N						
12	Canyon View Dr Station	N						
13	Central Ave Station & Pressure System	Y	10/10 - 8:45am	10/11 - 1am	Y	Stationary		
14	Clayton Rd Reservoir	Y	10/10 - 8:45am	10/11 - 1am	N			
15	Columbine Dr Station	N						
16	Congress Junction Station & Turnout	N	10/10 - 1am	10/10 - 4am	Y	Portable	53	
17	Cox Avenue Station & Regulator	N						
18	Cristo Rey Dr Reservoir	N						
19	Crothers Rd Reservoir	Y	10/10 - 8:30am	10/11 - 1am	N			
20	Cypress Ave Reservoir	Y	10/10 - 8:45am	10/11 - 1am	Y	Portable	64	
21	Dutard Heights	Y	10/10 - 8:30am	10/10 - 2pm	N			
22	Dutard Station	Y	10/10 - 8:30am	10/11 - 1am	N			
23	Elwood Rd Station	Y	10/10 - 11am	10/11 - 1am	Y	Portable	43	
24	Fleming Ave Station	Y	10/10 - 8:30am	10/11 - 1am	Y	Stationary		
25	Franciscan Station	N						
26	Franco Ct Station	N						
27	Glenview Pump Station	Y	10/10 - 8:45am	10/11 - 1am	Y	Portable	69	
28	Glenview Reservoir	Y	10/10 - 8:45am	10/11 - 1am	Y	Stationary		
29	Graystone Heights Pump Station	Y	10/10 - 8:30am	10/11 - 1:30pm	N			
30	Graystone Heights Reservoir	Y	10/10 - 8:30am	10/11 - 1:30pm	N			
31	Hickerson Reservoir	N						
32	High St Station	Y	10/10 - 8:45am	10/11 - 1am	N			
33	Hill Lane Station	Y	10/10 - 8:30am	10/11 - 1am	Y	Portable	63	
34	Holy City Pump Station	Y	10/10 - 8:45am	10/11 - 6:30pm	Y	Portable	60	
35	Kyburz Pl Station & Pressure System	N						
36	Lindy Ln Station	N						
37	Locust Drive Station	Y	10/10 - 8:45am	10/11 - 6:30pm	Y	Portable	42	

PSPS on 10.9.19 | PSPS on 10.26.19

	A	B	C	D	E	F	G	H
1	Highlighted cell = portable generators that were moved from one affected facility to another affected facility							
2	**Station**	**PSPS Utility Outage Event (Y/N)**	**Est. Outage Date/Time**	**Est. Restoration Date/Time**	**Generator Power Used (Y/N)**	**Generator Type (Stationary/Portable)**	**Generator # Used**	**Notes**
35	Kyburz Pl Station & Pressure System	N						
36	Lindy Ln Station	N						
37	Locust Drive Station	Y	10/10 - 8:45am	10/11 - 6:30pm	Y	Portable	42	
38	Lumber St Station	N						
39	Lumbertown Ln Reservoir	Y	10/10 - 8:45am	10/11 - 1am	N			
40	Mann Dr Station	N						
41	McKean Reservoir Site	N						
42	Meadow Ln Station	N						
43	Mercedes Road Reservoir	N						
44	Miguelito Station	Y	10/10 - 8:30am	10/11 - 1am	Y	Portable	62	
45	Mireval Road Station	Y	10/10 - 8:45am	10/11 - 1am	N			
46	Montevina PSI	Y	10/10 - 8:45am	10/11 - 8:30am	Y	Portable	61	
47	Montgomery Highlands Reservoir	N						
48	Montgomery Highlands Station	N						
49	Mountain Springs Station	N						
50	Oakmont Station	Y	10/10 - 8:45am	10/11 - 6:30pm	Y	Portable	68	
51	Ostwald	Y	10/10 - 8:45am	10/11 - 6:30pm	Y	Stationary		
52	Overlook Station	N				Portable	65	
53	Pavilion Station	Y	10/10 - 8:30am	10/11 - 6:30pm	Y	Stationary		
54	Perie Lane Tank & PSI	Y	10/10 - 8:30am	10/11 - 1am	Y	Portable	58	
55	Phillips Avenue Station	Y	10/10 - 8:45am	10/11 - 1am	N			
56	Pike Road Reservoir	N						
57	Pleasant Vista Dr Reservoir	Y	10/10 - 8:45am	10/11 - 1am	N			
58	Rainbows End Reservoir	N						
59	Ravinia Wy Reservoir	N						
60	Redhill Rd Reservoir	N						
61	Regnart Canyon Dr Station	N						
62	Regnart Heights Reservoir	N						
63	Regnart Rd Station	N						
64	Reno Dr Station	Y	10/10 - 8:45am	10/11 - 1am	N			
65	Rosemar Ave Station	Y	10/10 - 8:30am	10/11 - 1am	N			
66	Saratoga Hills Station	Y	10/10 - 8:45am	10/11 - 1am	Y	Portable	66	
67	Scenic Vista Dr Reservoir	Y	10/10 - 8:30am	10/11 - 1am	N			
68	Summit Rd Station	Y	10/10 - 8:45am	10/11 - 6:30pm	Y	Stationary		
69	Tank Farm Reservoir	Y	10/10 - 8:45am	10/11 - 6:30pm	N			

PSPS on 10.9.19 | PSPS on 10.26.19

	A	B	C	D	E	F	G	H
1	Highlighted cell = portable generators that were moved from one affected facility to another affected facility							
2	**Station**	**PSPS Utility Outage Event (Y/N)**	**Est. Outage Date/Time**	**Est. Restoration Date/Time**	**Generator Power Used (Y/N)**	**Generator Type (Stationary/Portable)**	**Generator # Used**	**Notes**
48	Montgomery Highlands Station	N						
49	Mountain Springs Station	N						
50	Oakmont Station	Y	10/10 - 8:45am	10/11 - 6:30pm	Y	Portable	68	
51	Ostwald	Y	10/10 - 8:45am	10/11 - 6:30pm	Y	Stationary		
52	Overlook Station	N				Portable	65	
53	Pavilion Station	Y	10/10 - 8:30am	10/11 - 6:30pm	Y	Stationary		
54	Perie Lane Tank & PSI	Y	10/10 - 8:30am	10/11 - 1am	Y	Portable	58	
55	Phillips Avenue Station	Y	10/10 - 8:45am	10/11 - 1am	N			
56	Pike Road Reservoir	N						
57	Pleasant Vista Dr Reservoir	Y	10/10 - 8:45am	10/11 - 1am	N			
58	Rainbows End Reservoir	N						
59	Ravinia Wy Reservoir	N						
60	Redhill Rd Reservoir	N						
61	Regnart Canyon Dr Station	N						
62	Regnart Heights Reservoir	N						
63	Regnart Rd Station	N						
64	Reno Dr Station	Y	10/10 - 8:45am	10/11 - 1am	N			
65	Rosemar Ave Station	Y	10/10 - 8:30am	10/11 - 1am	N			
66	Saratoga Hills Station	Y	10/10 - 8:45am	10/11 - 1am	Y	Portable	66	
67	Scenic Vista Dr Reservoir	Y	10/10 - 8:30am	10/11 - 1am	N			
68	Summit Rd Station	Y	10/10 - 8:45am	10/11 - 6:30pm	Y	Stationary		
69	Tank Farm Reservoir	Y	10/10 - 8:45am	10/11 - 6:30pm	N			
70	Teresita Station	N						
71	Tollgate Station	Y	10/10 - 8:45am	10/11 - 1am	N			
72	Tybalt Dr Station & Pressure Station	Y	10/10 - 8:45am	10/11 - 1am	Y	Stationary		
73	Via Santa Teresa Station	Y	10/10 - 8:45am	10/11 - 1am	Y	Portable	43	
74	Vickery Ave Station	Y	10/10 - 8:30am	10/11 - 6:30pm	Y	Stationary		
75	View Oaks Wy Station	Y	10/10 - 8:30am	10/11 - 1am	Y	Portable	43	
76	Vista De Almaden Station	N						
77	Webb Canyon Dr Tank	N						
78								
79								
80								
81								
82								

PSPS on 10.9.19 | PSPS on 10.26.19

	A	B	C	D	E	F	G	H
1	Highlighted cell = portable generators that were moved from one affected facility to another affected facility							
2	**Station**	**PSPS Utility Outage Event (Y/N)**	**Est. Outage Date/Time**	**Est. Restoration Date/Time**	**Generator Power Used (Y/N)**	**Generator Type (Stationary/Portable)**	**Generator # Used**	**Notes**
3	ALMADEN VALLEY	Y	10/26 - 10:30pm	10/28 - 7:30pm	Y	Portable	58	
4	ALMONDWOOD WY	Y	10/26 - 8:45pm	10/29 - 12:00pm	N			
5	ANNE WAY	Y	10/27 - 1:00pm	10/28 - 1:30pm	N			
6	AUSTRIAN DAM (CONE VALVES)	Y	10/26 - 8:45pm	10/29 - 6:30pm	N			
7	AUSTRIAN DAM (SHOP)	Y	10/26 - 8:45pm	10/29 - 6:30pm	N			
8	AZTEC RIDGE DR TANK	Y	10/26 - 8:25pm	10/29 - 2:00am	N			
9	BEAR CREEK RD	Y	10/26 - 8:45pm	10/29 - 6:30pm	Y	Stationary		
10	BEARDSLEY INTAKE	Y	10/26 - 8:45pm	10/29 - 6:30pm	N			
11	BEATRICE CIRCLE	Y	10/26 - 8:45pm	10/29 - 6:30pm	N			
12	BECKWITH RD TANK	Y	10/26 - 9:45pm	10/29 - 8:45am	N			
13	BIG BASIN WAY #1	Y	10/26 - 8:45pm	10/29 - 9:00am	N			
14	BREEDING AVE	Y	10/27 - 5:00 pm	10/29 - 9:00am	N			
15	CANYON VIEW DR	Y	10/26 - 8:45pm	10/29 - 8:45am	N			
16	CENTRAL AV	Y	10/26 - 9:45pm	10/29 - 8:45am	Y	Stationary		
17	CHEIM TANK	Y	10/26 - 10:30pm	10/28 - 7:30pm	N			
18	CROTHERS RD TANK	Y	10/26 - 8:30pm	10/28 - 12:15 pm	N			
19	GLENVIEW DR	Y	10/26 - 8:45pm	10/28 - 7:30pm	N	Portable	44	Generator set up as pre-emptive measure
20	GLENVIEW DR TANK	Y	10/26 - 8:45pm	10/28 - 7:30pm	Y	Stationary		
21	GRAYSTONE LN (PUMP STATION)	Y	10/26 - 8:30pm	10/29 - 12:00pm	N			
22	GRAYSTONE LN HEIGHTS (TANK SITE)	Y	10/26 - 8:30pm	10/29 - 12:00pm	N			
23	GREENRIDGE TERRACE	Y	10/26 - 8:45pm	10/28 - 1:30pm	N			
24	GREENRIDGE TERRACE TANKS	Y	10/26 - 8:45pm	10/28 - 1:30pm	N			
25	HAPPY ACRES	Y	10/26 - 8:15pm	10/29 - 12:00pm	Y	Portable	59	
26	HARWOOD RD	Y	10/27 - 1:00pm	10/28 - 1:30pm	N			
27	HARWOOD CT	Y	10/27 - 1:00pm	10/28 - 1:30pm	N			
28	HENDRY INTAKE	Y	10/26 - 8:45pm	10/29 - 6:30pm	N			
29	HIGH ST	Y	10/26 - 8:25pm	10/29 - 2:00am	N			
30	HILL LN	Y	10/26 - 8:30pm	10/28 - 7:30pm	Y	Portable	43	
31	HOLY CITY RD	Y	10/26 - 8:45pm	10/28 - 5:30pm	Y	Portable	60	
32	HOOKER INTAKE	Y	10/26 - 8:45pm	10/29 - 6:30pm	N			
33	HOWELL FILTER PLANT	Y	10/26 - 8:45pm	10/29 - 6:30pm	Y	Portable	67	
34	LAKE KITTRIDGE (CHLORINATOR)	Y	10/26 - 8:45pm	10/29 - 6:30pm	N			
35	LOCUST DR	Y	10/26 - 8:45pm	10/29 - 7:30pm	Y	Portable	42	
36	LOCUST DR	Y	10/26 - 8:45pm	10/29 - 7:30pm	Y	Portable	44	Needed second generator because primary failed
37	LOWER CAVANEE INTAKE	Y	10/26 - 8:45pm	10/29 - 6:30pm	N			

PSPS on 10.9.19 | **PSPS on 10.26.19**

	A	B	C	D	E	F	G	H
1	Highlighted cell = portable generators that were moved from one affected facility to another affected facility							
2	**Station**	**PSPS Utility Outage Event (Y/N)**	**Est. Outage Date/Time**	**Est. Restoration Date/Time**	**Generator Power Used (Y/N)**	**Generator Type (Stationary/Portable)**	**Generator # Used**	**Notes**
34	LAKE KITTRIDGE (CHLORINATOR)	Y	10/26 - 8:45pm	10/29 - 6:30pm	N			
35	LOCUST DR	Y	10/26 - 8:45pm	10/29 - 7:30pm	Y	Portable	42	
36	LOCUST DR	Y	10/26 - 8:45pm	10/29 - 7:30pm	Y	Portable	44	Needed second generator because primary failed
37	LOWER CAVANEE INTAKE	Y	10/26 - 8:45pm	10/29 - 6:30pm	N			
38	LUMBERTOWN LN TANK	Y	10/26 - 8:45pm	10/29 - 9:00am	N			
39	LUNDY LN	N			N			
40	MIGUELITO AVE	N			N	Portable	62	Generator set up as pre-emptive measure
41	MIREVAL	Y	10/26 - 8:25pm	10/29 - 2:00am	N			
42	MONTEVINA PRESSURE SYSTEM	Y	10/26 - 8:45pm	10/29 - 6:30pm	Y	Stationary		
43	MONTGOMERY HIGHLANDS #1 (PUMP STA	Y	10/26 - 8:25pm	10/29 - 2:00am	N			
44	MONTGOMERY HIGHLANDS #2 (TANK)	Y	10/26 - 8:25pm	10/29 - 2:00am	Y	Stationary		
45	MTN SPRINGS	Y	10/26 - 9:45pm	10/29 - 8:45am	N			
46	OAKMONT DR	Y	10/26 - 8:45pm	10/28 - 5:30pm	Y	Portable	61	
47	OSTWALD INTAKE	Y	10/26 - 8:45pm	10/29 - 6:30pm	Y	Stationary		
48	OSTWALD INTAKE PILOT	Y	10/26 - 8:45pm	10/29 - 6:30pm	Y	Stationary		
49	OVERLOOK RD	Y	10/26 - 9:45pm	10/29 - 8:45am	Y	Portable	69	
50	PARKER RANCH RD	Y	10/27 - 5:00 am	10/29 12:00pm	Y	Portable	65	
51	PAVILION	Y	10/26 - 8:45pm	10/28 - 8:00pm	Y	Portable	41	
52	PERIE LANE	Y	10/26 - 5:45pm	10/29 - 12:00pm	Y	Portable	63	
53	PHILLIPS RD TANK	Y	10/26 - 8:25pm	10/29 - 2:00am	Y	Portable	67	
54	PICEA CT TANK	Y	10/27 - 5:00 am	10/29 - 12:00pm	N			
55	PIKE RD TANK	Y	10/26 - 8:45pm	10/28 - 1:30pm	N			
56	PLEASANT VISTA DR TANK	Y	10/26 - 8:30pm	10/28 - 12:15 pm	N			
57	PROSPECT RD TANK	Y	10/27 - 5:00 am	10/29 - 12:00pm	N			
58	RAVINIA WY TANK	Y	10/26 - 8:45pm	10/29 12:00pm	N			
59	REDHILL RD TANK	Y	10/26 - 8:45pm	10/29 12:00pm	N			
60	REGNART CANYON TANK	Y	10/27 - 4:00am	10/28 - 10:30am	N			
61	REGNART HEIGHTS TANK	Y	10/27 - 4:00am	10/28 - 10:30am	N			
62	SARATOGA FILTER PLANT	Y	10/26 - 8:45pm	10/29 - 9:00am	N			
63	SARATOGA HILLS	Y	10/26 - 8:45pm	10/29 - 9:00am	Y	Portable	66	
64	SANTA ROSA	Y	10/27 - 1:00pm	10/28 - 1:30pm	Y	Stationary		
65	SCENIC VISTA DR #1 (REGULATOR)	Y	10/26 - 8:30pm	10/28 - 7:30pm	N			
66	SCENIC VISTA DR #2 (TANK)	Y	10/26 - 8:30pm	10/28 - 7:30pm	N			
67	SUMMIT RD	Y	10/26 - 8:45pm	10/29 - 6:30pm	Y	Stationary		
68	TANK FARM	Y	10/26 - 8:45pm	10/29 - 6:30pm	N			

PSPS on 10.9.19 | **PSPS on 10.26.19**

	A	B	C	D	E	F	G	H
1	Highlighted cell = portable generators that were moved from one affected facility to another affected facility							
2	**Station**	**PSPS Utility Outage Event (Y/N)**	**Est. Outage Date/Time**	**Est. Restoration Date/Time**	**Generator Power Used (Y/N)**	**Generator Type (Stationary/Portable)**	**Generator # Used**	**Notes**
53	PHILLIPS RD TANK	Y	10/26 - 8:25pm	10/29 - 2:00am	Y	Portable	67	
54	PICEA CT TANK	Y	10/27 - 5:00 am	10/29 - 12:00pm	N			
55	PIKE RD TANK	Y	10/26 - 8:45pm	10/28 - 1:30pm	N			
56	PLEASANT VISTA DR TANK	Y	10/26 - 8:30pm	10/28 - 12:15 pm	N			
57	PROSPECT RD TANK	Y	10/27 - 5:00 am	10/29 - 12:00pm	N			
58	RAVINIA WY TANK	Y	10/26 - 8:45pm	10/29 12:00pm	N			
59	REDHILL RD TANK	Y	10/26 - 8:45pm	10/29 12:00pm	N			
60	REGNART CANYON TANK	Y	10/27 - 4:00am	10/28 - 10:30am	N			
61	REGNART HEIGHTS TANK	Y	10/27 - 4:00am	10/28 - 10:30am	N			
62	SARATOGA FILTER PLANT	Y	10/26 - 8:45pm	10/29 - 9:00am	N			
63	SARATOGA HILLS	Y	10/26 - 8:45pm	10/29 - 9:00am	Y	Portable	66	
64	SANTA ROSA	Y	10/27 - 1:00pm	10/28 - 1:30pm	Y	Stationary		
65	SCENIC VISTA DR #1 (REGULATOR)	Y	10/26 - 8:30pm	10/28 - 7:30pm	N			
66	SCENIC VISTA DR #2 (TANK)	Y	10/26 - 8:30pm	10/28 - 7:30pm	N			
67	SUMMIT RD	Y	10/26 - 8:45pm	10/29 - 6:30pm	Y	Stationary		
68	TANK FARM	Y	10/26 - 8:45pm	10/29 - 6:30pm	N			
69	TERESITA WY	Y	10/26 - 8:45pm	10/29 12:00pm	Y	Portable	64	
70	THIRTY INCH #1	Y	10/26 - 8:45pm	10/29 - 6:30pm	N			
71	THIRTY INCH #2	Y	10/26 - 8:45pm	10/29 - 6:30pm	N			
72	TOLL GATE RD	Y	10/26 - 8:45pm	10/29 - 9:00am	N			
73	TROUT GULCH CRK INTAKE	Y	10/26 - 8:45pm	10/29 - 6:30pm	N			
74	VIA SANTA TERESA	Y	10/26 - 8:30pm	10/28 - 7:30pm	N			
75	VIA VALIENTE (TURN OUT)	Y	10/26 - 10:30pm	10/28 - 7:30pm	N			
76	VICKERY AV	Y	10/26 - 8:45pm	10/29 - 8:30am	Y	Stationary		
77	VIEW OAKS WAY	Y	10/26 - 8:30pm	10/28 - 7:30pm	N			
78	VISTA DE ALMADEN TANK	Y	10/26 - 8:30pm	10/29 - 12:00pm	Y	Stationary		
79	WEBB CANYON RD TANK	Y	10/26 - 10:30pm	10/28 - 7:30pm	N			
80	WOODED VIEW TANK	Y	10/26 - 8:45pm	10/29 12:00pm	Y	Stationary		
81								
82								
83								
84								
85								
86								
87								

PSPS on 10.9.19 | **PSPS on 10.26.19**